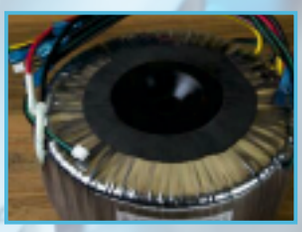
KIRAN™

INSULATING BOUNDARIES



DELIVERING QUALITY THROUGH EXPERIENCE, KNOWLEDGE AND EXPERTISE

Since 1974

INDUSTRIAL SOLUTIONS

When it comes to the Best Quality Protection Products for Your Automotive, Electrical, Mechanical, and Thermal Applications, your search ends with KIRAN™. With over 49 years of experience and expertise in the industry under the KIRAN brand. We are among the biggest producers in India and Asia.

Our products meet multiple international quality standards, including **UL, IEC, NEMA, ASTM, and BS,** and are produced using cutting-edge state-of-the-art technology. With an annual manufacturing capacity of over 30 million meters, our manufacturing facility is accredited with ISO 9001:2015, EMS 14001:2015, OHSAS 18001:2007, TS:16949:2009, and our products are compliant with the REACH, RoHS, CE, and MSHA.

We at KIRAN™ rely on our cutting-edge testing facilities to conduct thorough quality checks at different phases of the manufacturing process, guaranteeing superior quality.

Through our in-house R&D Centre, we are continuously developing new products suitable for electrical, mechanical, and thermal insulations as part of our endeavour for growth and innovation.

We realize that achieving excellence is not a destination, but a never-ending journey. Each employee in our organization is driven and dedicated to making sure that our high standards are upheld everywhere.

HISTORY AND KEY MILSTONES

- 3rd Generation Family Owned Company
- Establishment of First Manufacturing Unit in 1974
- Expansion and upgradation of Machinery in 1992
- First export shipment in 2003
- Certification of UL Grade "A" for H Class sleeving in 2006
- Implementation of customized ERP software in 2010
- Certification of UL Grade "B" for H Class & Acrylic sleeving in 2017
- Established a 2nd Manufacturing Unit in Rewari, Haryana in 2022
- Certification of International Railway Industry Standard in 2023

CONTENTS

SILICONE ELASTOMER COATED FIBERGLASS SLEEVING

KIRASRG 001

PRODUCT DESCRIPTION

KIRASRG 001 sleeving is made of a high-temperature silicone rubber elastomer that has been pressure-bonded to a heat-stabilized fiberglass braid. Even in lower dielectric grades, it can withstand extreme push-back thanks to its exceptional flexibility. KIRASRG 001 sleeving is the best insulation option. Even after folding and bending, the electrical strength remains high. The sleeves are physically robust, flame retardant, and have outstanding resistance to abrasion.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multi filament
and Silicone Elastomer

THERMAL CLASS
Class – H

OPERATING TEMP
-60°C to +180°C (Peak +200°C)

SIZES
0.5mm to 50 mm

FLAMMABILITY
UL 1441 - VW-1 (UL Grade-A)

EXPANDABILITY
1:2 (As per Customer Requirement)

STANDARD COLOR
Natural & Black, Other Colors on request

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

DIELECTRIC STRENGTH
A-Min 7000 Volts
B-Min 4000 Volts
C-Min 2500 Volts

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

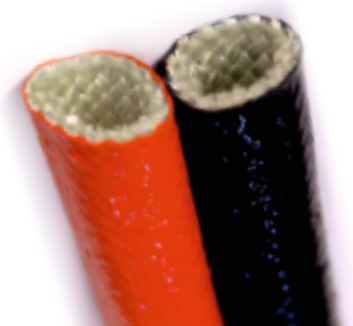
- Rotation Machine Core Wire Insulation
- Instrumental Panel Harness
- Engine Compartment Harness
- Modular Wire Harness.
- Motor and Generator Lead Wire protection.
- Tubing
- Oil Filled Transformers Lead wire protection

STANDARDS

- IEC 60684
- UL - 1441
- BS 2848
- NEMA
- ASTM D - 350
- ASTM D - 372
- JIS C - 2347

COMPLIANCES

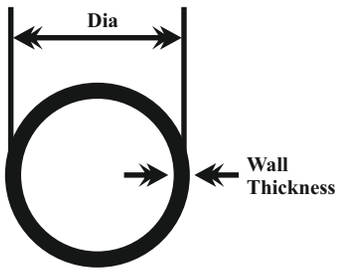
UL File No.: E324343, E491961, IEEMAE318161
UL Part Code: SRG 001



TECHNICAL CHARACTERSTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Resistance	UL1441: 7 days at +265°C 60 days at +235°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B-Vertical without mandrel UL1441	Extinguishes within 60 seconds. Self-extinguishing VW-1
5.	Insulation Resistance	BS 2848 IEC 60684	10^5 MΩ
6.	Hydrolysis of Coating	IEC 60684	There was no burning of the coating or any sign of de-colorisation of the SleeveCoating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IEC 60684	No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

SILICONE ELASTOMER COATED FIBERGLASS SLEEVING-HIGH Temp.

KIRASRG 001 (HT)

PRODUCT DESCRIPTION

KIRASRG 001 (HT) is a flexible fiberglass sleeve coated with silicone elastomer and featuring an outer layer of fiberglass braid. The over braid bonding procedure improves assembly performance and gets rid of the long-term handling effects of operator dermatitis by adhering the over braid to the silicone-coated substrate and minimizing end fray.

The majority of acids, oils, organic solvents, and water do not affect the sleeving. Additionally, almost all electrica l grade varnishes and impregnation systems appropriate for all VPI applications are compatible with it.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multifilament and Silicone

THERMAL CLASS
Class – H

OPERATING TEMP
-60°C to +250°C (Peak +300°C)

SIZES
0.5mm to 50mm

FLAMMABILITY
VW-1 (UL Grade-A)

EXPANDABILITY
1:2 (As per Customer requirement)

STANDARD COLOR
Natural & Black, Other Colors on request

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25+ Yrs

DIELECTRIC STRENGTH
A-Min 7000 Volts
B-Min 4000 Volts
C-Min 2500 Volts

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Rotation machine Core Insulation
- Instrumental Panel Harness
- Engine Compartment Harness
- Modular Wire Harness.
- Motor and Generator Lead Wire protection.
- Tubing
- Oil Filled Transformers Lead wire protection

STANDARDS

- IEC 60684
- UL - 1441
- BS 2848
- NEMA
- ASTM D - 350
- ASTM D - 372
- JIS C - 2347

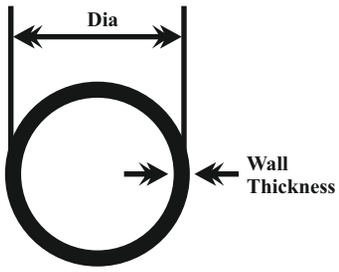
COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Resistance	UL1441: 7 days at +265°C 60 days at +235°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B-Vertical without mandrel UL1441	Extinguishes within 60 seconds. Self-extinguishing VW-1
5.	Insulation Resistance	IEC 60684	10^5 MΩ
6.	Hydrolysis of Coating	IEC 60684	There was no burning of the coating or any sign of de-colorisation of the Sleeve Coating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IEC 60684	No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

ACRYLIC RESIN COATED FIBERGLASS SLEEVING

KIRAAG 701

PRODUCT DESCRIPTION

KIRAAG 701 Acrylic Coated Fiberglass Sleeving is made from non-alkali tight Fiberglass braiding that has been thermoplasticized with a special grade Acrylic resin to produce a durable and flexible sleeving capable of withstanding mechanical stress while retaining die-electric properties. It has excellent resistance to alkalis and is resistant to an array of elements, including water, acids, oils, and solvents.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multifilament and Acrylic Resin

THERMAL CLASS
Class – F

OPERATING TEMP
-30°C to +155°C (Peak +180°C)

SIZES
0.5mm to 50mm

FLAMMABILITY
VW-1 (UL Grade-A)

EXPANDABILITY
1:1.5

STANDARD COLOR
Natural & Black, Other Colors on request

SHELF LIFE *(Under Recommended Storage conditions)*
More than 10 years

DIELECTRIC STRENGTH
A-Min 7000 Volts
B-Min 4000 Volts
C-Min 2500 Volts

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Rotation Machine Core Insulation
- Instrumental Panel Harness
- Engine Compartment Harness
- Standard Wire Harness.
- Motor and Generator Lead Wire protection.
- Tubing
- Dry and Oil Filled Transformers Lead wire protection

STANDARDS

- IEC 60684
- UL - 1441
- BS 2848
- NEMA
- ASTM D - 350
- ASTM D - 372

COMPLIANCES

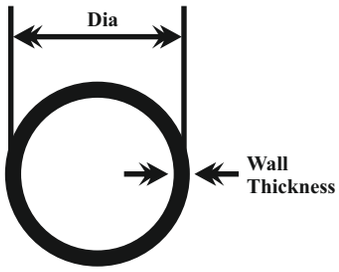
RoHS COMPLIANT REACH COMPLIANT CE

UL File No.: E491961, E324343
UL Part Code: AG 701

TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Resistance	UL1441: 7 days at +265°C 60 days at +235°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B-Vertical without mandrel UL1441	Extinguishes within 60 seconds. Self-extinguishing VW-1
5.	Insulation Resistance	IEC 60684	10^5 MΩ
6.	Hydrolysis of Coating	IEC 60684	There was no burning of the coating or any sign of de-colorisation of the Sleeve Coating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IEC 60684	No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

SILICONE COATED FIBERGLASS **FIRE** SLEEVING

KIRASRG 001 (FIRE)

PRODUCT DESCRIPTION

The KIRASRG 001(FIRE) Fire Sleeving is constructed from premium fiberglass yarns braided into a flexible substrate, and it is subsequently covered in premium silicone rubber that has fully cured. It is made to shield cables, wires, and hoses from the dangers of intense heat and sporadic direct flame. The KIRASRG 001(FIRE) Fire sleeve can withstand a molten splash at 2000°F (1093°C) and provides continuous protection up to 500°F (260°C).

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multifilament and Silicone

THERMAL CLASS
Class – H

SIZES
4mm to 100mm

DIELECTRIC STRENGTH
Min 10000 Volts

FLAMMABILITY
VW-1 and MSHA

EXPANDABILITY
1:2 on Request

STANDARD COLOR
Brick Red & Black

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

OPERATING TEMP
-60°C to +260°C
1093°C (Max. 30 Mins)
upto 1650°C (Max. 30 Sec)

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATION

- Protective covering for cables, ropes and hoses
- Sheath for bundling of multiple wires
- Insulation covering to prevent heat loss from hot metal hoses and piping
- Steel Mills, Nonferrous smelting mills, Fuel supply lines, Steam, hot water and hot oil lines, Hoses and cables close to furnaces, boilers, engines
- Thermal insulation covering hoses and piping means reduced energy costs

STANDARDS

- IEC 60684
- MSHA
- SAE AS 1072

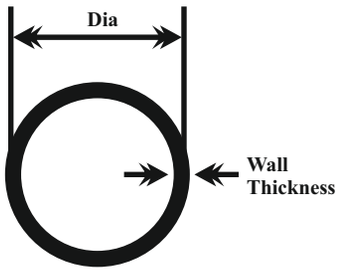
COMPLIANCES

UL File No.: E324343
UL Part Code: SRG 001

TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Temp. Rating	ASTM D 3418 +400°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B Vertical without mandrel UL 1441, UL 94	Extinguishes within 60 seconds. Self-Extinguishable V-0
5.	Thermal Conductivity	ASTM E 1530	0.10 w/m^3k
6.	Hydrolysis of Coating	IEC 60684	There shall be no burning of the coating or any sign of de-colorization of the Sleeve Coating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IS 7016	Pass - No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
6.0mm	± 0.5mm	Min. 2.0mm (or) Min. 3.00mm (On Requirement)	25 Mtrs
8.0mm			
10.0mm			
12.0mm	± 1.0mm		
15.0mm			
20.0mm			
25.0mm	± 2.0mm		
30.0mm			
35.0mm			
40.0mm			
50.0mm			
60.0mm	± 3.0mm		
70.0mm			
80.0mm			
90.0mm			
(*)Other diameters and colors supplied upon request.			

PRODUCT DESCRIPTION

KIRAPU 3000 is a Fiberglass sleeving impregnated with Polyurethane varnish that is utilized in applications that demand consistent heat resistance and dielectric strength. The product, which comes in several grades and has a dielectric strength of up to 4000 volts depending on the application, is composed of an inner wall layer formed of braided and polyurethane - coated fiberglass yarn. For all Class 155°C thermal needs, KIRAPU 3000 Class - F sleeving is advised as a universal coated sleeving. The sleeving can operate at temperatures exceeding its thermal classification for brief periods of time and is compatible with the majority of insulating varnishes.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Filament and Polyurethane Resin

THERMAL CLASS
Class – F

OPERATING TEMP
-30°C to +155°C

SIZES
0.5mm to 50mm

DIELECTRIC STRENGTH
Max 5000 Volts

STANDARD COLOR
Natural & Black, Other Colors on request

SHELF LIFE *(Under Recommended Storage conditions)*
Maximum 6months

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Alternator core winding
- Instrumental Panel Harness
- Engine Compartment Harness
- Modular Wire Harness
- Motor and Generator Lead Wire protection
- Tubing
- Oil Filled Transformers Lead wire protection

STANDARDS

- IEC 60684
- UL - 1441
- BS 2848
- NEMA
- JIS C - 2347

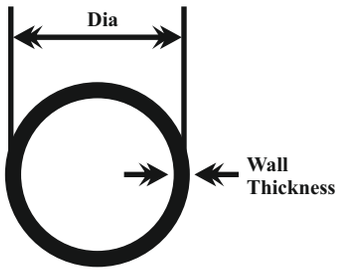
COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Resistance	IEC 60684	No cracks or detachment of coating were visible and the original colors shall be clearly recognizable
2.	Cold Resistance	IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B Vertical without mandrel	Extinguishes within 45 seconds.
5.	Insulation Resistance	IEC 60684	10^5 MΩ
6.	Hydrolysis of Coating	IEC 60684	There were no burning of the coating or any sign of de-colorisation of the Sleev Coating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IEC 60684	No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

PRODUCT DESCRIPTION

KIRATEX 1102 is an aluminum-coated insulative fiber glass sleeving made of fiberglass multifilament. Its components are made to tolerate high temperatures.

PROPERTIES

SLEEVING MATERIAL
TEX Fiberglass Filament and Silicone Resin

THERMAL CLASS
Class - H

OPERATING TEMP
-60°C to +250°C

SIZES
0.5mm to 50mm

FLAMMABILITY
VW – 1

STANDARD COLOR
Grey/Silver

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

FEATURES

- Superior Thermal Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility
- High Shrinkage

CORE APPLICATIONS

- Alternator core winding
- Instrumental Panel Harness
- Engine Compartment Harness
- Modular Wire Harness
- Motor and Generator Lead Wire protection
- Tubing
- Oil Filled Transformers Lead wire protection

STANDARDS

- IEC 60684
- UL - 1441
- BS 2848
- NEMA
- ASTM D - 350
- ASTM D - 372
- JIS C - 2347

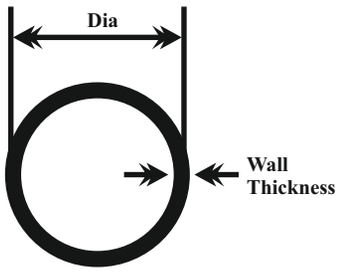
COMPLIANCES

UL File No.: E324343
UL Part Code: SRG 001

TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Ageing / Temp. Rating	240Hrs for 250°C	Visually no sign of degradation or no changes
2.	Thermal Effectiveness Test	SAE J 2302	Visually no sign of degradation or no changes
3.	Low Temp. Flexibility	SAE J 2192	Pass
4.	Fluid Resistance	D47 1924	Pass
5.	Flammability	FMVSS 302 D45 1333	Self-Extinguishable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

PRODUCT DESCRIPTION

The KIRA HL SRG 1020 Fire Sleeve with Velcro is a robust and adaptable solution that shields vital parts from elevated temperatures and possible fire risks in settings such as engine compartments. Its high-temperature resistance and Velcro edge make it an invaluable tool in applications and sectors where heat protection is crucial. For brief periods of time, the sleeve can tolerate temperatures as high as 1650°C, and it can bear direct, continuous heat up to 260°C. In severe circumstances, this degree of heat resistance is essential for insulating and safeguarding wires, fuel lines and oil lines.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Filament and Silicone Resin

THERMAL CLASS
Class – H

OPERATING TEMP
-60°C to +260°C (Peak +1093°C for 15 - 20 Mins)

SIZES
6mm to 100mm

FLAMMABILITY
VW-1

STANDARD COLOR
Red Oxide & Black, Other Colors on request

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Protective covering for cables, ropes and hoses
- Sheath for bundling of multiple wires
- Insulation covering to prevent heat loss from hot metal hoses and piping
- Steel Mills, Nonferrous smelting mills, Fuel supply lines, Welding applications, Steam, hot water and hot oil lines, Hoses and cables close to furnaces, boilers, engines etc
- Thermal insulation covering hoses and piping means reduced energy costs

STANDARDS

- IEC 60684
- BS 2848
- UL 1441
- IS 7016

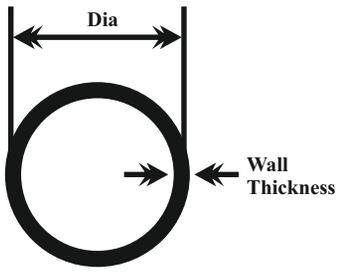
COMPLIANCES

UL File No.: E324343
UL Part Code: SRG 001

TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Temp. Rating	ASTM D 3418 +400°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B Vertical without mandrel UL 1441, UL 94	Extinguishes within 60 seconds. Self-Extinguishable V-0
5.	Thermal Conductivity	ASTM E 1530	0.10 w/m^3k
6.	Hydrolysis of Coating	IEC 60684	There was no burning of the coating or any sign of de-colorisation of the Sleeve Coating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IS 7016	Pass - No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
6.0mm	± 0.5mm	Min. 2.0mm (or) Min. 3.00mm (On Requirement)	25 Mtrs
8.0mm			
10.0mm			
12.0mm	± 1.0mm		
15.0mm			
20.0mm			
25.0mm	± 2.0mm		
30.0mm			
35.0mm			
40.0mm			
50.0mm			
60.0mm	± 3.0mm		
70.0mm			
80.0mm			
90.0mm			
(*)Other diameters and colors supplied upon request.			

PRODUCT DESCRIPTION

Type E braided fiberglass is used to construct KIRASFGC 001, which is subsequently covered in premium high-temperature silicone rubber.to offer a tight seal in situations requiring a high level of gas, liquid, or air tightness. Environments exposed to the risks of intense heat and sporadic flame can also employ this rope.

PROPERTIES

BRAIDED MATERIAL
Fiberglass (or) Polyester Multi Filament

FILLER MATERIAL
Glass

TYPE OF YARN
"E" Glass

TEMP
+550°C for Fiberglass

SIZES
1mm to 30mm

STANDARD COLOR
Red Oxide and Black

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

COATING
Silicone

OPERATING TEMP
-60°C to +200°C (Peak +250°C)

FLAMMABILITY
Self Extinguishable

FEATURES

- Excellent Low Temperature Flexibility
- Flame Retardant
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Tying purpose
- Used in Boilers, Furnaces and Ovens for sealing
- Suitable for all VPI Process

STANDARDS

- As per the customers' requirements

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

HEAT TREATED FIBERGLASS SLEEVING

KIRAHTG 001

PRODUCT DESCRIPTION

The heat-treated KIRAHTG 001 sleeves are our only uncoated fibreglass sleeve, composed of non-alkali fiberglass braiding that has the wax refined out and the weaves hardened. It has the quality of having a high tensile strength. It is also an outstanding insulator when it comes to the wiring of electrical equipment, machinery, and home appliances.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multi Filament

THERMAL CLASS
Class – E

OPERATING TEMP
-70°C to +550°C

SIZES
1.0mm to 50mm

DIELECTRIC STRENGTH
Max. 1000Volts

STANDARD COLOR
Natural & Golden

MELTING POINT
+650°C

FEATURES

- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

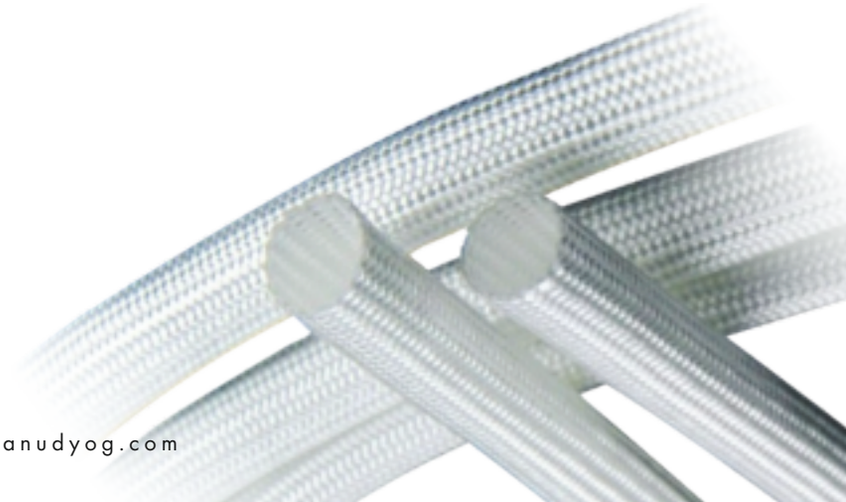
- IRotation Machine Lead Wire Thermal Protectionnstrumental Panel Harness
- Instrumental Panel Harness Thermal Protectionubing
- Engine Compartment Harness Thermal Protection
- Tubing

STANDARDS

- As per the customers' requirements

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE



GLASS BRAIDED ACRYLIC RESIN FIBERGLASS SLEEVING

KIRAAG 701 (VPI)

PRODUCT DESCRIPTION

KIRAAG 701 (VPI) fiberglass sleeves have an acrylic resin coating and an external layer of fiberglass braid that is bonded over-braided. A flexible and extremely protective sleeve with a larger surface area for the absorption and retention of the vacuum pressure impregnation resin is created by this combination.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multi Filament and Acrylic Resin

THERMAL CLASS
Class – F

OPERATING TEMP
-30°C to +155°C (Peak 180°C)

SIZES
0.5mm to 50mm

FLAMMABILITY
VW-1 (UL Grade-A)

EXPANDABILITY
1:2

STANDARD COLOR
Natural & Black Other Colors on request

SHELF LIFE *(Under Recommended Storage conditions)*
More than 10 years

DIELECTRIC STRENGTH
A-Min 7000 Volts
B-Min 4000 Volts
C-Min 2500 Volts

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- No possibility of dry spots in absorbent layer
- High Flexibility

CORE APPLICATIONS

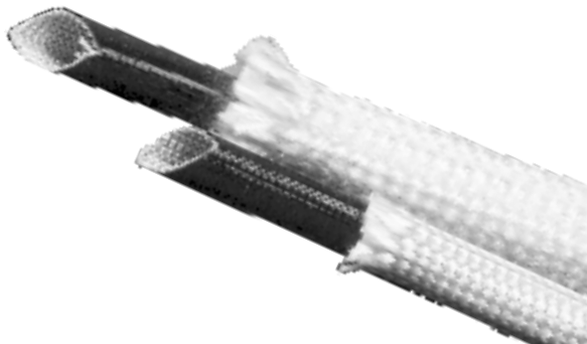
- Alternator VPI winding
- Motor VPI Core Winding

STANDARDS

- IEC 60684
- UL - 1441
- BS 2848
- NEMA
- ASTM D - 350
- ASTM D - 372

COMPLIANCES

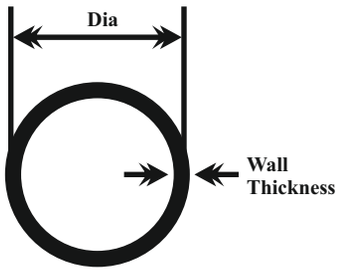
UL File No.: E324343
UL Part Code: AG 701 / VPI



TECHNICAL CHARACTERISTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Resistance	UL1441: 7 days at +265°C 60 days at +235°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B-Vertical without mandrel UL1441	Extinguishes within 60 seconds. Self-extinguishing VW-1
5.	Insulation Resistance	IEC 60684	10^5 MΩ
6.	Hydrolysis of Coating	IEC 60684	There was no burning of the coating or any sign of de-colorisation of the Sleeve Coating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IEC 60684	No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

GLASS BRAIDED SILICONE COATED FIBERGLASS SLEEVING

KIRASRG 001 VPI

PRODUCT DESCRIPTION

KIRASRG 001 VPI is Fiberglass Silicone Elastomer Coated flexible Sleeving with an outer layer of Fiberglass braid. The over braid bonding process adheres the over braid to the Silicone coated substrate and minimizes end fray to improve assembly performance and eliminate the long term handling effects of operator dermatitis. KIRASRG 001 VPI Silicone Sleeving is resistant to most acids, oils, organic solvents and water. It is also compatible with virtually all Electrical grade varnishes and Impregnation systems suitable for all VPI applications.

PROPERTIES

MATERIAL
Fibre Glass Multi Filament
Silicone Coated Elastometer Sleeve

THERMAL CLASS
Class – H

OPERATING TEMP
-60°C to +180°C

SIZES
1.0mm to 25mm

DIELECTRIC STRENGTH
A–Min 7000 Volts
B–Min 4000 Volts
C–Min 2500 Volts

FLAMMABILITY
Self Extinguishable (UL 1441 – VW-1)

EXPANDABILITY
1:2

STANDARD COLOR
Black & White, other colors upon request

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

FEATURES

- High level of heat resistance
- Extremely flexible
- Resists cracks or splitting
- Excellent abrasion and cut-through resistance
- Superior mechanical and electrical properties
- Excellent chemical and solvent resistance
- Will not support flame
- Economical
- Supplied in spooled lengths to minimize waste.

CORE APPLICATIONS

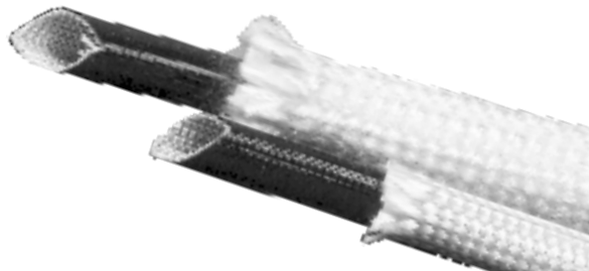
- For Coil and Winding Industry
- Used in Coils, Motors, Generators, Transformer
- Wind Turbines and Solar Panels
- Industrial Fields

STANDARDS

- IEC 60684
- ASTM D - 372

COMPLIANCES

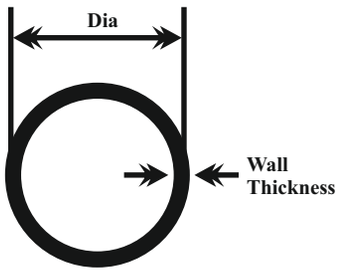
UL File No.: E324343



TECHNICAL CHARACTERSTICS

Sl. No	PROPERTIES	REF. SPECIFICATIONS	RESULT
1.	Heat Resistance	UL1441: 7 days at +265°C 60 days at +235°C	No cracks or detachment of coating were visible and the original colors were clearly recognizable
2.	Cold Resistance	UL 1441 IEC 60684	No cracks or detachment of coating were visible.
3.	Chemical Resistance	Simulation of real operating conditions	Compatible with most insulating varnishes and transformer oils
4.	Flammability	Flame propagation: IEC60684 Part2 Clause 26. Method B-Vertical without mandrel UL1441	Extinguishes within 60 seconds. Self-extinguishing VW-1
5.	Insulation Resistance	BS 2848 IEC 60684	10^5 MΩ
6.	Hydrolysis of Coating	IEC 60684	There was no burning of the coating or any sign of de-colorisation of the SleeveCoating.
7.	Bending (Flexibility) (Low Temp./Ageing/ Max. Temp.)	IEC 60684	No cracks or detachment of coating were visible and the original colors were clearly recognizable

DIMENSIONS



Inner Dia	Dia Tolerance	Wall Thickness	Standard Packing
0.5mm	± 0.2mm	0.50mm ± 0.20mm	100 Mtrs
1.0mm	± 0.3mm		
2.0mm			
3.0mm			
4.0mm	± 0.5mm		
5.0mm			
6.0mm			
8.0mm			
10.0mm			
12.0mm	± 1.0mm	0.65mm ± 0.20mm	50 Mtrs
14.0mm			
16.0mm			
20.0mm			
25.0mm	± 2.0mm		
(*)Other diameters and colors supplied upon request.			

KIRAFGT 001

PRODUCT DESCRIPTION

The KIRAFGT 001 Fiberglass Tapes are a type of narrow, strong selvage-edged fabric woven from non- alkali E-glass fibers. This keeps the fabric from fraying and unraveling at the edges. The narrow widths improve accuracy and productivity by removing the need to cut wider fiberglass fabrics down to size. The highly drapable, tightly woven tapes provide greater uniformity.

PROPERTIES

TAPE MATERIAL
Fiberglass Multi Filament

TYPE OF YARN
"E" Glass

OPERATING TEMP
-70°C to +550°C

SIZES
1/2 Inch to 4 Inch

THICKNESS
0.10mm to 0.75mm (As per Customer Req.)

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

FLAMMABILITY
Self Extinguishable

WEAVING
Plain or Twill

FEATURES

- Excellent Low Temperature Flexibility
- Flame Retardant
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Alternator and motor core winding
- Transformer Core Winding
- Cable manufacturing process
- Tying purpose
- Used in Boilers, Furnaces and Ovens for sealing

STANDARDS

- IEC 60684
- IS 5352

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

IWEMA File No.: E318161
IWEMA Part Code: SET 101

KIRAPT - 001

PRODUCT DESCRIPTION

KIRAPT 001 Polyester Non-Adhesive Tapes are made of Polyester yarn. At 155°C, these polyester woven tapes maintain up to 25% of their tensile strength and won't burn or smolder. They combine outstanding flexibility with a high strength-to-weight ratio.

PROPERTIES

TAPE MATERIAL
Polyester Multi Filament

TYPE OF YARN
Polyester

OPERATING TEMP
-70°C to +155°C

SIZES
1/2 Inch to 4 Inch

THICKNESS
0.10mm to 0.75mm

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 10 years

WEAVING
Plain or Twill

FEATURES

- Excellent Low Temperature Flexibility
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Alternator and motor core winding
- Transformer Core Winding
- Cable manufacturing process
- Tying purpose
- Used in Boilers, Furnaces and Ovens for sealing

STANDARDS

- IEC 60684
- IS 5352

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

IWEMA File No.: E318161
IWEMA Part Code: SET 101

KIRAFFH 001

PRODUCT DESCRIPTION

High temperature, low thermal conductivity fiberglass yarn is used to make the KIRAFFH 001 Fiberglass Braid. The rope and braid are intended to function as seals or gaskets in a variety of industrial settings.

PROPERTIES

SLEEVING MATERIAL
Fiberglass Multi Filament

THERMAL CLASS
"E" Class

OPERATING TEMP
-70°C - +550°C

SIZES
1.0mm to 40.0mm

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

TYPE
Braiding

THICKNESS
0.50mm to 4.0mm

FEATURES

- Superior Electrical Properties
- Excellent Low Temperature Flexibility
- Flame Retardant and Insulation performance
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Used in traction motors in the Railway Industry
- Tying purpose in a variety of applications

STANDARDS

- As per the customers' requirements

COMPLIANCES

RoHS COMPLIANT
REACH COMPLIANT
CE

KIRAPFH 001

PRODUCT DESCRIPTION

The KIRAPFH 001 polyester flat hose is made with polyester yarns to create braiding that is flattened to fit the winding of traction motors, alternators, and transformers.

PROPERTIES

SLEEVING MATERIAL
Polyester Multi Filament

TYPE OF YARN
Polyester

OPERATING TEMP
-70°C to +155°C

SIZES
1.0mm to 40.0mm

THICKNESS
0.50mm to 2.0mm

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 10 years

TYPE
Braided and Hose

FEATURES

- Excellent Low Temperature Flexibility
- Compatible with all type of resins
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Used in traction motors in the Railway Industry
- Tying purpose in a variety of applications

STANDARDS

- As per the customers' requirements

COMPLIANCES

RoHS COMPLIANT
REACH COMPLIANT
CE

GLASS FILLED FIBERGLASS TYING CORD

KIRAFGC 001

PRODUCT DESCRIPTION

Braided fiberglass cables with KIRAFGC 001 designation are designed to withstand temperatures as high as 550°C. The precise diameter of this cord is formed by a fiberglass braided jacket surrounding a core of fiberglass yarn, which allows for controlled compression sealing. A "Yarn-Filled-Braid" or "Braid-Over-Braid" jacket is used on larger diameters to ensure accurate gasket dimensions and durability.

PROPERTIES

BRAIDED MATERIAL
Fiberglass Multi Filament

FILLER MATERIAL
Fiberglass

TYPE OF YARN
"E" Glass

OPERATING TEMP
-70°C to +550°C

SIZES
1mm to 50mm

ACCELERATOR
On request (Zinc Naphthenate 4% – 8%)

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

FEATURES

- Excellent Low Temperature Flexibility
- Flame Retardant
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Alternator and motor core winding
- Transformer Core Winding
- Tying purpose
- Used in Boilers, Furnaces and Ovens for sealing
- Suitable for all VPI Process.

STANDARDS

- As per customers requirement

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

GLASS FILLED POLYESTER TYING CORD

KIRAFPC 001

PRODUCT DESCRIPTION

KIRAFPC 001 Polyester cord is manufactured using polyester yarns it is suitable for alternator, motor, transformer, core winding for tying purpose

PROPERTIES

BRAIDED MATERIAL
Polyester Multi Filament

FILLER MATERIAL
Fiberglass

TYPE OF YARN
Polyester

OPERATING TEMP
-70°C to +155°C

SIZES
1mm to 50mm

ACCELERATOR
On request (Zinc Naphthenate 4% – 8%)

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 10 years

FEATURES

- Excellent Low Temperature Flexibility
- Flame Retardant
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Alternator and motor core winding
- Transformer Core Winding
- Tying purpose
- Used in Boilers, Furnaces and Ovens for sealing
- Suitable for all VPI Process.

STANDARDS

- As per the customers' requirements

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

SOLID FIBERGLASS TYING CORD

KIRASGC 001

PRODUCT DESCRIPTION

Low thermal conductivity, high temperature texturized fiberglass yarn is used to make KIRASGC 001 Fiberglass Rope and Braid. For a variety of industrial purposes. Featuring a temperature rating of 1000°F (537°C), resistance to heat, sparks, and flames, chemical resistance, a pH range of 2 to 12, low thermal conductivity, high tensile strength, no stretch or shrinkage, and high dielectric strength, it can also be used as a gasket or seal for doors and openings in ovens, furnaces, boilers, processing tanks, kettles, and other similar appliances.

PROPERTIES

BRAIDED MATERIAL
Fiberglass Multi Filament

FILLER MATERIAL
Braided

TYPE OF YARN
Fiberglass

OPERATING TEMP
-70°C to +500°C

SIZES
3mm to 25mm

ACCELERATOR
On request (Zinc Naphthenate 4% – 8%)

STANDARD COLOR
White

SHELF LIFE *(Under Recommended Storage conditions)*
More than 25 years

MELTING POINT
+650°C

FEATURES

- Excellent Low Temperature Flexibility
- Flame Retardant
- High level Thermal Protection
- Mechanical & Chemical Resistance
- Oil Resistance
- Halogen Free
- High Flexibility

CORE APPLICATIONS

- Traction Motor Winding application
- Alternator and motor core winding
- Transformer Core Winding
- Tying purpose
- Used in Boilers, Furnaces and Ovens for sealing
- Suitable for all VPI Process

STANDARDS

- As per the customers' requirements

COMPLIANCES

RoHS COMPLIANT · REACH COMPLIANT · CE

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KIRAN

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