

Borealis Superclean™ LR4201S Crosslinkable Polyethylene Insulation for Medium and High Voltage Power Cables

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Wire/Cable Grade

Material Notes:

Superclean LR4201S is a Superclean crosslinkable low density polyethylene (XLPE) for medium and high voltage power cable insulation. The formulation of LR4201S provides an optimum combination of good extrudability and electrical properties. LR4201S is natural in color. LR4201S has been specifically developed for medium and high voltage power cables. Because it is a Superclean material, LR4201S is suitable for use in high voltage cables rated up to 161 kV. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Superclean-LR4201S-Crosslinkable-Polyethylene-Insulation-for-Medium-and-High-Voltage-Power-Cables.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	Base Resin; ASTM D1928/D 1505
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1693
ESCR 10% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1693
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	Base Resin; ISO 1133
Degree of Crosslinking	12 %	12 %	ASTM D2765

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength, Yield	>= 13.7 MPa	>= 1980 psi	Heat Aging (168 hrs at 136°C); ASTM D638
	15.2 MPa	2200 psi	At 20 in/min; ASTM D1238
Elongation at Break	<= 75 %	<= 75 %	Hot Creep Test (150°C, 29 psi); ICEA T-28-562
	400 %	400 %	ASTM D638
Tensile Set	5.0 %	5.0 %	Hot Creep Test (150°C, 29 psi); ICEA T-28-562
	360 %	360 %	Retention; ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.3 @Frequency 60 Hz	2.3 @Frequency 60 Hz	ASTM D150
Dielectric Strength	>= 21.7 kV/mm @Thickness 1.30 mm	>= 550 kV/in @Thickness 0.0512 in	ASTM D149
Dissipation Factor	0.00050 @Frequency 60 Hz	0.00050 @Frequency 60 Hz	ASTM D150

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China