

Generic XLPE

Crosslinked Polyethylene

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.905 - 0.974	g/cm ³	ASTM D792
23°C	0.921 - 0.936	g/cm ³	ISO 1183
--	0.918 - 0.983	g/cm ³	ASTM D1505
Apparent Density	0.47 - 1.26	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR)			
190°C/2.16 kg	0.32 - 2.1	g/10 min	ASTM D1238
190°C/2.16 kg	0.93 - 2.2	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
23°C	46 - 64		ASTM D2240
23°C	52 - 56		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6.00 - 685	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	15.8 - 31.0	MPa	ASTM D638
Yield, 23°C	15.0 - 22.1	MPa	ISO 527-2
Fracture, 23°C	11.0 - 31.0	MPa	ASTM D638
23°C	19.9 - 20.0	MPa	ASTM D638
23°C	9.80 - 14.2	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	340 - 520	%	ASTM D638
Fracture, 23°C	140 - 460	%	ISO 527-2
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	11.5 - 16.5	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	160 - 300	%	ASTM D412
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-79.2 - -74.4	°C	ASTM D746
Vicat Softening Temperature	119 - 127	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			

23°C	1.0E+2 - 1.0E+16	ohms·cm	ASTM D257
23°C	10 - 1.1E+16	ohms·cm	IEC 60093
Dielectric Strength			
23°C	20 - 47	kV/mm	ASTM D149
23°C	22 - 30	kV/mm	IEC 60243-1
Dielectric Constant			
23°C	2.30 - 3.70		ASTM D150
23°C	2.29 - 2.31		IEC 60250
Dissipation Factor			
23°C	3.0E-4 - 0.010		ASTM D150
23°C	3.0E-4 - 5.1E-4		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29 - 36	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Drying Temperature	40.0 - 60.0	°C	
Drying Time	4.0 - 5.2	hr	
Cylinder Zone 1 Temp.	128 - 175	°C	
Cylinder Zone 2 Temp.	139 - 185	°C	
Cylinder Zone 3 Temp.	144 - 192	°C	
Cylinder Zone 4 Temp.	149 - 207	°C	
Cylinder Zone 5 Temp.	173 - 221	°C	
Melt Temperature	129 - 136	°C	
Die Temperature	159 - 227	°C	
Extrusion instructions			

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