

ExxonMobil HDPE HPA 020 Wire & Cable High Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Product Description: HPA 020 is a HDPE grade for Medium/High Voltage power cable jacketing. The grade should be used in blends with LLDPE to improve ESCR. Sufficient Carbon Black or UV stabilizer should be added to meet cable jacketing specifications. Availability:

Africa & Middle East, Asia Pacific and Europe Applications: Automotive wiring compoundsMV/HV thermoplastic jacketingTelecom/Data/

LAN cable insulationInformation provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-HDPE-HPA-020-Wire-Cable-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D4883
Melt Flow	9.0 g/10 min @Load 21.6 kg, Temperature 190 °C	9.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62 @Time 15.0 sec	62 @Time 0.00417 hour	ASTM D2240
Tensile Strength at Break	33.1 MPa	4800 psi	ASTM D638
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	840 %	840 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Flexural Modulus, 1% Secant	896 MPa	130000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	129 °C	264 °F	ASTM D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.20e+15 ohm-cm	6.20e+15 ohm-cm	ASTM D257
Dielectric Constant	2.2 @Frequency 60.0 Hz	2.2 @Frequency 60.0 Hz	ASTM D150
Dielectric Strength	55.1 kV/mm	1400 kV/in	500 V/sec; ASTM D149
	0.00050	0.00050	

Designation Factor	Metric	English	ASTM D150
Electrical Properties	@ Frequency 60.0 Hz	@ Frequency 60.0 Hz	Comments

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