

LNP NORYL® EXCP0112 PPS + Polyphenylene Ether, 40% Glass / Mineral Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Sulfide (PPS)

Material Notes:

For applications requiring voltage resistance. Features: Corona resistant Forms: Pellets Processing Method: Injection Molding Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-NORYL-EXCP0112-PPS-Polyphenylene-Ether-40-Glass-Mineral-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	117 MPa	17000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	5 mm/min; ASTM D638
Flexural Strength	158 MPa	22900 psi	50.8 mm Span, 1 mm/min; ASTM D790
Flexural Modulus	10.9 GPa	1580 ksi	(50.8 mm Span) 1mm/min; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.30 J/cm	4.31 ft-lb/in	ASTM D256
Falling Dart Impact	3.73 J	2.75 ft-lb	ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	261 °C @Thickness 3.18 mm	502 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	202 °C @Thickness 3.18 mm	396 °F @Thickness 0.125 in	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Constant			ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	288 - 304 °C	550 - 579 °F	
Middle Barrel Temperature	304 - 316 °C	579 - 601 °F	
Front Barrel Temperature	316 - 332 °C	601 - 630 °F	
Nozzle Temperature	304 - 321 °C	579 - 610 °F	
Melt Temperature	304 - 332 °C	579 - 630 °F	
Mold Temperature	138 - 160 °C	280 - 320 °F	
Drying Temperature	141 °C	286 °F	
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	0.040 %	0.040 %	Suggested
Back Pressure	0.345 MPa	50.0 psi	

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