

LNP NORYL® EXCP0111 PPS + Polyphenylene Ether, 42% 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-EXCP0111-PPS-Polyphenylene-Ether-42-Glass-Mineral-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.3 GPa	1640 ksi	5 mm/min; ASTM D638
Flexural Strength	145 MPa	21000 psi	50.8 mm Span, 1 mm/min; ASTM D790
Flexural Modulus	10.2 GPa	1480 ksi	(50.8 mm Span) 1mm/min; ASTM D790
Izod Impact, Notched	0.374 J/cm	0.701 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.24 J/cm	4.20 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)	268 °C @Thickness 3.18 mm	514 °F @Thickness 0.125 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	211 °C @Thickness 3.18 mm	412 °F @Thickness 0.125 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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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