

## GEHR Plastics Noryl PPO (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

### Material Notes:

PPO belongs to the group of the amorphous materials and can be used in temperatures ranging from -58 °F to +302 °F. PPO exhibits a high impact strength and a very high dimensional stability. The electrical properties will not be influenced by the surrounding frequencies and therefore can be used in a lot of applications in electrical engineering. Main Characteristics: high dimensional stability; low tendency to creep; high thermostability; high impact strength; good electrical characteristics over a far frequency range; high resistance to hydrolysis; self-extinguishing  
Information provided by GEHR Plastics, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_GEHR-Plastics-Noryl-PPO-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_GEHR-Plastics-Noryl-PPO-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	0.0070 %	0.0070 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	63.4 MPa	9200 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D1708
Modulus of Elasticity	2.55 GPa	370 ksi	ASTM D638
Flexural Strength	97.2 MPa	14100 psi	ASTM D 790
Izod Impact, Notched (ISO)	7.35 kJ/m <sup>2</sup>	3.50 ft-lb/in <sup>2</sup>	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 °C	221 °F	
Deflection Temperature at 0.46 MPa (66 psi)	123 °C	254 °F	HDT/A; ASTM D648
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D139

Descriptive Properties	Value	Comments
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<b>Acid Resistance</b> Descriptive Properties	<b>Yes</b> Value	<b>Comments</b>
Aromatic Resistance	No	
Bondability	Yes	
CKW Resistance	No	
Hydrocarbonate Resistance	Limited	
Hydroxide Resistance	Yes	
Ketone Resistance	No	
Physiological indifference according	On Request	
Resistance to Hot Water	Yes	
UV Stabilization	Limited	

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