

# Quadrant EPP Noryl PPO

Polyphenylene Ether

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Noryl PPO is a Polyphenylene Ether (PPE) product. It can be processed by extrusion and is available in North America.

Characteristics include:

Flame Rated

Chemical Resistant

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Hydrocarbon Resistant		
	Solvent Resistant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2530	MPa	ASTM D638
Tensile Strength (Ultimate)	57.2	MPa	ASTM D638
Tensile Elongation (Break)	23	%	ASTM D638
Flexural Modulus	2740	MPa	ASTM D790
Flexural Strength (Yield)	88.9	MPa	ASTM D790
Compressive Modulus	2180	MPa	ASTM D695
Compressive Strength (10% Strain)	91.0	MPa	ASTM D695
Shear Strength	57.2	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	127	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	93	°C	
Glass Transition Temperature	140	°C	ASTM D3418
CLTE - Flow <sup>1</sup> (-40 to 149°C)	6.4E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>2</sup>	28	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	V-1		UL 94
NOTE			
1.	68°F		
2.	Method A (Short-Time)		

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