

Generic PPE

Polyphenylene Ether

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PPE
This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.02 to 1.10	g/cm ³	ASTM D792
23°C	1.02 to 1.07	g/cm ³	ISO 1183
Molding Shrinkage - Flow (23°C)	0.59 to 0.61	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060 to 0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2050 to 2720	MPa	ASTM D638
Tensile Strength			
Yield, 23°C	39.2 to 76.0	MPa	ASTM D638
Break, 23°C	18.0 to 56.3	MPa	ASTM D638
Break, 23°C	17.5 to 60.0	MPa	ISO 527-2
23°C	40.0 to 68.9	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	2.3 to 60	%	ASTM D638
Break, 23°C	8.8 to 280	%	ASTM D638
Break, 23°C	14 to 130	%	ISO 527-2
Flexural Modulus			
23°C	2100 to 2770	MPa	ASTM D790
23°C	100 to 2580	MPa	ISO 178
Flexural Strength (Yield, 23°C)	53.9 to 114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	44 to 380	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	60.0 to 200	°C	
1.8 MPa, Unannealed	81.2 to 151	°C	
Vicat Softening Temperature	140 to 193	°C	ISO 306
CLTE - Flow	6.0E-5 to 7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value		Test Method
Dielectric Constant (23°C)	2.54		ASTM D150

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