

Generic PPE+TPE

Polyphenylene Ether + TPE

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01 - 1.33	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	5.1 - 16	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 23°C	0.40 - 1.1	%	ASTM D955
Transverse flow: 23°C	0.33 - 1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.059 - 0.23	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (23°C)	70 - 93		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Fracture, 23°C	8.50 - 27.4	MPa	ASTM D638
Fracture, 23°C	8.75 - 23.0	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	93 - 310	%	ASTM D638
Fracture, 23°C	90 - 230	%	ISO 527-2
Flexural Modulus			
23°C	37.7 - 163	MPa	ASTM D790
23°C	27.0 - 720	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Trouser Tear Resistance	7.00 - 46.0	N/mm	ISO 6383-1
Thermal	Nominal Value	Unit	
UL Temperature Rating	80 - 105	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
23°C	1.5E+15 - 5.0E+16	ohms · cm	ASTM D257
23°C	3.8E+14 - 3.9E+16	ohms · cm	IEC 60093
Dielectric Strength (23°C)	21 - 26	kV/mm	IEC 60243-1
Dielectric Constant			
23°C	2.60 - 3.00		ASTM D150
23°C	2.90		IEC 60250
Dissipation Factor			

23°C	1.0E-3 - 7.4E-3		ASTM D150
23°C	1.5E-3 - 0.030		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	743 - 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	725 - 800	°C	IEC 60695-2-13
Oxygen Index	24 - 29	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Drying Temperature	79.8 - 80.0	°C	
Drying Time	6.0	hr	
Cylinder Zone 1 Temp.	200 - 205	°C	
Cylinder Zone 3 Temp.	235 - 245	°C	
Cylinder Zone 5 Temp.	235 - 246	°C	
Melt Temperature	235 - 246	°C	
Die Temperature	235 - 246	°C	
Extrusion instructions			

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