

Generic PPE+PS - Glass Fiber, Milled

Polyphenylene Ether + PS

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber with embossing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.13 - 1.35	g/cm ³	ASTM D792
23°C	1.25 - 1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	8.5 - 49	g/10 min	ASTM D1238
Water Absorption (Saturation, 23°C)	0.20 - 0.45	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	115 - 147	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3100 - 4400	MPa	ASTM D638
23°C	3100 - 5000	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	59.0 - 75.0	MPa	ASTM D638
Yield, 23°C	50.0 - 73.0	MPa	ISO 527-2
Fracture, 23°C	57.0 - 75.0	MPa	ASTM D638
Fracture, 23°C	50.0 - 73.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	3.0 - 4.0	%	ASTM D638, ISO 527-2
Fracture, 23°C	3.5 - 5.0	%	ASTM D638
Fracture, 23°C	3.0 - 5.0	%	ISO 527-2
Flexural Modulus			
23°C	3200 - 4400	MPa	ASTM D790
23°C	3000 - 4700	MPa	ISO 178
Flexural Stress			
23°C	95.0 - 123	MPa	ISO 178
Yield, 23°C	100 - 120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	30 - 40	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	35 - 55	J/m	ASTM D256
Unnotched Izod Impact Strength (23°C)	25 - 35	kJ/m ²	ISO 180

Instrumented Dart Impact (23°C)	8.00 - 19.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	91.0 - 148	°C	ASTM D648
1.8 MPa, not annealed	95.0 - 145	°C	ISO 75-2/A
Vicat Softening Temperature			
--	115 - 165	°C	ASTM D1525
--	110 - 167	°C	ISO 306
Linear thermal expansion coefficient			
Flow	4.5E-5 - 6.6E-5	cm/cm/°C	ASTM E831
Flow	4.0E-5 - 5.0E-5	cm/cm/°C	ISO 11359-2
Lateral	4.8E-5 - 5.2E-5	cm/cm/°C	ASTM E831
Lateral	5.0E-5 - 6.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.28 - 0.29	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C)	15 - 33	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	3.05		IEC 60250
Dissipation Factor (23°C)	3.0E-3 - 6.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	32 - 34	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 115	°C	
Drying Time	2.5 - 3.0	hr	
Hopper Temperature	70.0 - 90.0	°C	
Rear Temperature	250 - 280	°C	
Middle Temperature	270 - 300	°C	
Front Temperature	290 - 320	°C	
Nozzle Temperature	270 - 300	°C	
Processing (Melt) Temp	290 - 310	°C	
Mold Temperature	80.0 - 115	°C	
Injection instructions			

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