

Generic PTT - Glass Fiber

Polytrimethylene Terephthalate

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48 - 1.70	g/cm ³	ASTM D792
Molding Shrinkage			
Flow: 23°C	0.20 - 0.83	%	ASTM D955
23°C	0.20 - 0.90	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3100 - 16500	MPa	ASTM D638
Tensile Strength (23°C)	52.0 - 147	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	1.4 - 2.6	%	ASTM D638
Flexural Modulus (23°C)	6190 - 9700	MPa	ASTM D790
Flexural Strength (23°C)	154 - 197	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32 - 81	J/m	ASTM D256
Unnotched Izod Impact (23°C)	160 - 650	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204 - 208	°C	ASTM D648
Linear thermal expansion coefficient			ISO 11359-2
Flow	7.0E-6 - 3.4E-5	cm/cm/°C	ISO 11359-2
Lateral	6.7E-5 - 1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C)	24 - 38	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	4.00		IEC 60250
Dissipation Factor (23°C)	1.2E-3 - 0.016		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	650 - 703	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	675 - 728	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	120 - 127	°C	
Drying Time	4.0 - 5.0	hr	
Processing (Melt) Temp	246 - 260	°C	
Mold Temperature	95.0 - 105	°C	

Injection Pressure	86.0 - 86.2	MPa
Injection instructions		

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