

Generic Polyester, TS - Glass Fiber

Thermoset Polyester

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	1.60 - 2.02	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.069 - 0.36	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050 - 0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	48 - 91		ASTM D785
Barcol Hardness	29 - 58		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9560 - 43800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	6.89 - 78.3	MPa	ASTM D638
23°C	31.6 - 114	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.50 - 1.3	%	ASTM D638
Flexural Modulus (23°C)	6690 - 14700	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C	75.8 - 178	MPa	ASTM D790
Yield, 23°C	68.9 - 179	MPa	ASTM D790
Compressive Strength (23°C)	100 - 234	MPa	ASTM D695
Shear Strength (23°C)	80.0 - 105	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30 - 640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	258 - 262	°C	ASTM D648
Continuous Use Temperature	220 - 223	°C	ASTM D794
CLTE - Flow	1.3E-5 - 2.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	2.9E-4 - 0.27	W/m/K	ASTM C177
RTI Elec	54.4 - 131	°C	UL 746
RTI	54.4 - 164	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 - 1.8E+14	ohms	ASTM D257
Volume Resistivity (23°C)	1.5E+6 - 2.2E+15	ohms · cm	ASTM D257

Dielectric Strength (23°C)	2.0 - 20	kV/mm	ASTM D149
Dielectric Constant (23°C)	0.0440 - 6.94		ASTM D150
Dissipation Factor (23°C)	3.0E-3 - 0.032		ASTM D150
Arc Resistance	179 - 190	sec	ASTM D495
Comparative Tracking Index (CTI)	500 - 606	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	22 - 47	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	151 - 152	°C	
Mold Temperature	152 - 173	°C	
Injection instructions			

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