Generic Polyester, TS - Glass\Mineral

Thermoset Polyester

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass \Mineral		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.85 - 2.02	g/cm³	ASTM D792
23°C	1.67 - 1.91	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.070 - 0.35	%	ASTM D955
23°C	-0.050 - 0.16	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.099 - 0.19	%	ASTM D570
Saturated, 23°C	0.30 - 0.50	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Barcol Hardness	29 - 46		ASTM D2583
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	10700 - 14000	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	34.5 - 49.0	MPa	ASTM D638
Yield, 23°C	22.1 - 92.6	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.0 - 1.6	%	ISO 527-2
Flexural Modulus (23°C)	8630 - 11100	MPa	ISO 178
Flexural Strength			
23°C	108 - 127	MPa	ASTM D790
23°C	65.7 - 190	MPa	ISO 178
Compressive Strength (23°C)	165 - 180	MPa	ASTM D695
Poisson's Ratio (23°C)	0.30		ASTM E132
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	9.0 - 82	kJ/m²	ISO 179
Notched Izod Impact (23°C)	140 - 420	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, not annealed	257 - 260	°C	ASTM D648
1.8 MPa, not annealed	149 - 202	°C	ISO 75-2/A

Continuous Use Temperature	164 - 171	°C	ASTM D794
Glass Transition Temperature	161 - 172	°C	DSC
CLTE - Flow	1.0E-5 - 1.2E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+8 - 2.5E+12	ohms	IEC 60093
Volume Resistivity (23°C)	7.5E+14 - 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (23°C)	13 - 16	kV/mm	ASTM D149
Dielectric Constant (23°C)	5.17 - 5.53		ASTM D150
Dissipation Factor (23°C)	7.0E-3 - 0.020		ASTM D150
Arc Resistance	179 - 190	sec	ASTM D495
Comparative Tracking Index (CTI)	500 - 600	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Glow Wire Ignition Temperature	750 - 960	°C	IEC 60695-2-13
Oxygen Index	22 - 30	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Mold Temperature	142 - 152	°C	
Injection Pressure	4.65 - 9.38	MPa	

Injection instructions

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Recommended distributors for this material

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