

Generic Polyester, TS - Mineral

Thermoset Polyester

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Mineral filler		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.70 - 2.02	g/cm ³	ASTM D792
Apparent Density	0.68 - 0.95	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (23°C)	0.075 - 0.54	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10 - 0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	51 - 110		ASTM D785
Barcol Hardness	9.1 - 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9560 - 20100	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	41.2 - 55.7	MPa	ASTM D638
23°C	34.5 - 83.3	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.60 - 1.1	%	ASTM D638
Flexural Modulus (23°C)	9330 - 18300	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C	87.0 - 146	MPa	ASTM D790
Yield, 23°C	68.9 - 114	MPa	ASTM D790
Compressive Strength (23°C)	136 - 180	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	24.3 - 28.1	J/m	ASTM D256
Notched Izod Impact (23°C)	20 - 170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	258 - 260	°C	ASTM D648
Continuous Use Temperature	165 - 223	°C	ASTM D794
CLTE - Flow	4.3E-5 - 8.6E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.5E+14 - 6.6E+15	ohms · cm	ASTM D257
Dielectric Strength (23°C)	10 - 15	kV/mm	ASTM D149
Dielectric Constant (23°C)	4.20 - 6.15		ASTM D150
Dissipation Factor (23°C)	6.3E-3 - 0.028		ASTM D150

Arc Resistance	180 - 191	sec	ASTM D495
Comparative Tracking Index (CTI)	500 - 600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	24 - 47	%	ASTM D2863
Injection	Nominal Value	Unit	
Processing (Melt) Temp	96.5 - 153	°C	
Mold Temperature	157 - 173	°C	
Injection Pressure	8.40 - 8.60	MPa	
Injection instructions			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

