

Generic Polyester, TS

Thermoset Polyester

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69 - 2.04	g/cm ³	ASTM D792
Apparent Density	1.11 - 1.70	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (23°C)	1.7E-4 - 0.26	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15 - 0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (23°C)	59 - 88		ASTM D2240
Barcol Hardness	34 - 66		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	220 - 51900	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	34.3 - 80.6	MPa	ASTM D638
23°C	36.3 - 241	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	1.2 - 4.4	%	ASTM D638
Fracture, 23°C	0.40 - 1.4	%	ASTM D638
Flexural Modulus (23°C)	208 - 13900	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C	68.9 - 267	MPa	ASTM D790
Yield, 23°C	8.96 - 383	MPa	ASTM D790
Compressive Strength (23°C)	107 - 202	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	22 - 3200	J/m	ASTM D256
Unnotched Izod Impact (23°C)	210 - 470	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	32.2 - 261	°C	ASTM D648
CLTE - Flow	6.0E-6 - 2.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.27 - 0.30	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C)	2.0 - 21	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.94 - 7.36		ASTM D150
Dissipation Factor (23°C)	6.0E-3 - 0.022		ASTM D150

Arc Resistance	178 - 191	sec	ASTM D495
Comparative Tracking Index (CTI)	500 - 600	V	UL 746
Thermoset	Nominal Value	Unit	
Pot Life (23°C)	4.0 - 8.3	min	
Shelf Life (23°C)	13 - 14	wk	
Demold Time	5.0 - 41	min	
Uncured Properties	Nominal Value	Unit	
Viscosity (23°C)	0.45 - 2.7	Pa · s	
Gel Time (23°C)	4.0 - 28	min	
Injection	Nominal Value	Unit	
Mold Temperature	151 - 160	°C	
Injection instructions			

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