

Generic Polyester, TP - Glass Fiber

Thermoplastic Polyester

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic Polyester, TP - Glass Fiber
This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78 to 1.90	g/cm ³	ASTM D792
Bulk Factor	1.0 to 3.0		ASTM D1895
Molding Shrinkage - Flow (23°C)	0.025 to 0.18	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.099 to 0.17	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	31.0 to 39.2	MPa	ASTM D638
Flexural Modulus (23°C)	4550 to 12800	MPa	ASTM D790
Flexural Strength (23°C)	65.5 to 143	MPa	ASTM D790
Compressive Modulus	324000 to 407000	MPa	ASTM D695
Compressive Strength (23°C)	102 to 153	MPa	ASTM D695
Shear Strength (23°C)	31.0 to 59.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43 to 590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	258 to 260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C)	13 to 14	kV/mm	ASTM D149
Arc Resistance	184 to 188	sec	ASTM D495
Inclined-Plane Tracking	988 to 1000	min	ASTM D2303

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