

Generic TPU-Polyester - Glass Fiber

Thermoplastic Polyurethane Elastomer (Polyester)

Generic

Message:

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

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23 - 1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	0.10 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.14 - 0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (23°C)	64 - 90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	345 - 3470	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	14.5 - 29.0	MPa	ASTM D638
23°C	17.2 - 83.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	10 - 11	%	ASTM D638
Fracture, 23°C	3.2 - 13	%	ASTM D638
Flexural Modulus (23°C)	276 - 7070	MPa	ASTM D790
Flexural Strength (23°C)	9.65 - 211	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	62 - 800	J/m	ASTM D256
Unnotched Izod Impact (23°C)	1300 - 1600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	54.0 - 127	°C	ASTM D648
1.8 MPa, not annealed	54.4 - 83.6	°C	ASTM D648
CLTE - Flow	1.3E-6 - 1.3E-4	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.36 - 0.41	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+11 - 2.5E+14	ohms · cm	ASTM D257
Dielectric Strength (23°C)	18 - 20	kV/mm	ASTM D149
Dielectric Constant (23°C)	3.67 - 4.83		ASTM D150
Dissipation Factor (23°C)	0.012 - 0.014		ASTM D150
Injection	Nominal Value	Unit	

Drying Temperature	82.2 - 107	°C
Drying Time	3.5 - 6.0	hr
Rear Temperature	195 - 197	°C
Middle Temperature	196 - 197	°C
Front Temperature	196 - 197	°C
Processing (Melt) Temp	202 - 235	°C
Mold Temperature	39.7 - 72.5	°C
Injection Pressure	85.8 - 86.9	MPa

Injection instructions

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