

Shinite® PET T101G45

Polyethylene Terephthalate
Shinkong Synthetic Fiber Corp.

Message:

Shinite® PET T101G45 is a Polyethylene Terephthalate (PET) material filled with 45% glass fiber. It is available in North America. Primary attribute of Shinite® PET T101G45: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.67	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10 to 0.30	%	
Across Flow	0.50 to 0.80	%	
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	137	MPa	ASTM D638
Tensile Elongation (Break)	3.6	%	ASTM D638
Flexural Modulus	12600	MPa	ASTM D790
Flexural Strength (Yield)	226	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	230	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant	4.00		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Recommended distributors for this material

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