

Toyobo T-750 Nylon, Painting Grade

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Key Feature: Glass fiber and mineral reinforced, high heat distortion grades
Information provided by Toyobo Co., Ltd

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-T-750-Nylon-Painting-Grade.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	123 MPa	17800 psi	ASTM D638
Elongation at Break	3.8 %	3.8 %	ASTM D638
Modulus of Elasticity	7.20 GPa	1040 ksi	ASTM D638
Flexural Yield Strength	183 MPa	26500 psi	ASTM D790
Flexural Modulus	7.20 GPa	1040 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 μm/m-°C	23.9 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ASTM D648
Flammability, UL94	HB	HB	unregistered

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

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