

Toyobo GLAMIDE® T-402FR Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled

Material Notes:

GLAMIDE® is very tough and exhibits high abrasion resistance. It has a high melting point and heat resistance, has well-balanced proportions of mechanical properties, performs self-distinguishing and a specific grade approved as UL94V-0 class is provided, and it exhibits excellent chemical resistance and oil resistance. Grade T-402FR is a flame resistant, aromatic Nylon-6. It is of halogen origin and contains 30% GF.30

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-402FR-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	Absolute Drying; ASTM-D792
Filler Content	30 %	30 %	
Water Absorption	1.1 %	1.1 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.9 %	1.9 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	20 g/10 min	20 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	85.0 MPa	12300 psi	Practical Use (Water Absorption 1.9%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	92.0 MPa	13300 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	150 MPa	21800 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	215 MPa	31200 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.5 %	3.5 %	Absolute Drying; ASTM-D638

Mechanical Properties	4.6 % Metric	4.6 % English	Practical Use (Water Absorption 1.9%); ASTM-D638 Comments
Flexural Strength	95.0 MPa	13800 psi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	125 MPa	18100 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	200 MPa	29000 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	235 MPa	34100 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	5.40 GPa	783 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	5.80 GPa	841 ksi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.80 GPa	1420 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.5 GPa	1810 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	140 MPa	20300 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.800 J/cm	1.50 ft-lb/in	Practical Use (Water Absorption 1.9%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.10 J/cm	2.06 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.30 J/cm	2.44 ft-lb/in	Practical Use (Water Absorption 1.9%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	25	25	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 µm/m-°C	12.8 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa			Absolute Drying; ASTM-D648

(56 psi) Thermal Properties	217 °C Metric	423 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Absolute Drying; ASTM-D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	Practical Use (Water Absorption 1.9%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	15.0 kV/mm @Thickness 2.00 mm	381 kV/in @Thickness 0.0787 in	Practical Use (Water Absorption 1.9%); ASTM-D149
	21.0 kV/mm @Thickness 2.00 mm	533 kV/in @Thickness 0.0787 in	Absolute Drying; ASTM-D149
Arc Resistance	15 sec	15 sec	Practical Use (Water Absorption 1.9%); ASTM-D495
	25 sec	25 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	325 V	325 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	40.0 - 60.0 MPa	5800 - 8700 psi	

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