

Toyobo GLAMIDE® T-669VGB Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% 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-669VGB is a flame resistant Nylon-66. It is of halogen origin and contains 35% GF.35

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-669VGB-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	Absolute Drying; ASTM-D792
Filler Content	35 %	35 %	
Water Absorption	0.60 %	0.60 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.5 %	1.5 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	25 g/10 min	25 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	100 MPa	14500 psi	Practical Use; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	125 MPa	18100 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	145 MPa	21000 psi	Practical Use; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	180 MPa	26100 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	210 MPa	30500 psi	Practical Use; ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	230 MPa	33400 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	2.5 %	2.5 %	Absolute Drying; ASTM-D638
	3.0 %	3.0 %	
Flexural Strength	130 MPa	18900 psi	Practical Use; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	160 MPa	23200 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	190 MPa	27600 psi	Practical Use; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	240 MPa	34800 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 MPa	36300 psi	Practical Use; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	270 MPa	39200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	5.40 GPa	783 ksi	Practical Use; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.00 GPa	1020 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	8.00 GPa	1160 ksi	Practical Use; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.3 GPa	1640 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.0 GPa	1890 ksi	Practical Use; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	14.0 GPa	2030 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric ^{cm}	English ^{lb/in}	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	Practical Use; ASTM-D256
	1.40 J/cm	2.62 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.70 J/cm	3.18 ft-lb/in	Practical Use; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	26	26	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	262 °C	504 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	Absolute Drying; ASTM-D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	Practical Use; ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	4.0	4.0	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	Practical Use; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	24.0 kV/mm	610 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.010	0.010	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	110 sec	110 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	300 V	300 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 295 °C	527 - 563 °F	
Mold Temperature	80.0 °C	176 °F	

Injection Pressure Processing Properties	40.0 MPa Metric	5800 psi English	Comments
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