

Toyobo GLAMIDE® T-422VOR Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Mineral 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-422VOR is a flame resistant, aromatic, and mineral reinforced Nylon-6. It is of halogen origin.23

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-422VOR-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	Absolute Drying; ASTM-D792
Filler Content	23 %	23 %	
Water Absorption	0.50 %	0.50 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.8 %	1.8 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 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	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	24.0 MPa	3480 psi	Practical Use (Water Absorption 1.8%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	28.0 MPa	4060 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	38.0 MPa	5510 psi	Practical Use (Water Absorption 1.8%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	51.0 MPa	7400 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	61.0 MPa	8850 psi	Practical Use (Water Absorption 1.8%); ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	65.0 MPa	9430 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	1.5 %	1.5 %	Absolute Drying; ASTM-D638
	4.5 %	4.5 %	Practical Use (Water Absorption 1.8%); ASTM-D638
Flexural Strength	38.0 MPa	5510 psi	Practical Use (Water Absorption 1.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	50.0 MPa	7250 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	63.0 MPa	9140 psi	Practical Use (Water Absorption 1.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90.0 MPa	13100 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	104 MPa	15100 psi	Practical Use (Water Absorption 1.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	110 MPa	16000 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.20 GPa	174 ksi	Practical Use (Water Absorption 1.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.40 GPa	493 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.40 GPa	638 ksi	Practical Use (Water Absorption 1.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.10 GPa	885 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.40 GPa	928 ksi	Practical Use (Water Absorption 1.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.20 GPa	1040 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	45.0 MPa	6530 psi	Practical Use (Water Absorption 1.8%); ASTM-D695

Mechanical Properties	62.0 MPa Metric	8990 psi English	Comments Absolute Drying; ASTM-D695
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.400 J/cm	0.749 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.450 J/cm	0.843 ft-lb/in	Practical Use (Water Absorption 1.8%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm	1.31 ft-lb/in	Practical Use (Water Absorption 1.8%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	32	32	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 µm/m-°C	23.3 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Absolute Drying; ASTM-D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 - 1.00e+9 ohm-cm	1.00e+8 - 1.00e+9 ohm-cm	Practical Use (Water Absorption 1.8%); ASTM-D257
		1.00e+12 ohm-cm	
Dielectric Strength	20.0 kV/mm	508 kV/in	Practical Use (Water Absorption 1.8%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	29.0 kV/mm	737 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	15 sec	15 sec	Practical Use (Water Absorption 1.8%); ASTM-D495
	25 sec	25 sec	
Comparative Tracking Index	350 V	350 V	IEC Method

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	250 - 285 °C Metric	482 - 545 °F English	Comments
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	40.0 - 60.0 MPa	5800 - 8700 psi	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China