

## Toyobo GLAMIDE® T-777-02 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% 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-777-02 is a standard plating grade, mineral-reinforced Nylon-6.40

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-GLAMIDE-T-777-02-Nylon-6.php](http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-777-02-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	Absolute Drying; ASTM-D792
Filler Content	40 %	40 %	
Water Absorption	0.90 %	0.90 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.0 %	2.0 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0080 - 0.013 cm/cm	0.0080 - 0.013 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	33 g/10 min	33 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	30.0 MPa	4350 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	45.0 MPa	6530 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	86.0 MPa	12500 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	110 MPa	16000 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	115 MPa Metric	16700 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	11 %	11 %	Absolute Drying; ASTM-D638
	25 %	25 %	Practical Use (Water Absorption 2.0%); ASTM-D638
Flexural Strength	38.0 MPa	5510 psi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	60.0 MPa	8700 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	65.0 MPa	9430 psi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	75.0 MPa	10900 psi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	140 MPa	20300 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	170 MPa	24700 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.00 GPa	145 ksi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.70 GPa	247 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.00 GPa	290 ksi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.50 GPa	798 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.30 GPa	914 ksi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	7.30 GPa	1060 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	105 MPa	15200 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	Absolute Drying; ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	0.450 J/cm	0.843 ft-lb/in	Practical Use (Water Absorption 2.0%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.650 J/cm	1.22 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.80 J/cm	5.25 ft-lb/in	Practical Use (Water Absorption 2.0%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 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)	150 °C	302 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	Practical Use (Water Absorption 2.0%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	16.0 kV/mm	406 kV/in	Practical Use (Water Absorption 2.0%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	21.0 kV/mm	533 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	120 sec	120 sec	Practical Use (Water Absorption 2.0%); ASTM-D495
	130 sec	130 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	70.0 - 110 °C	158 - 230 °F	
Injection Pressure	40.0 - 50.0 MPa	5800 - 7250 psi	

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