

## Toyobo GLAMIDE® T-662 Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

### 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-662 is a standard type, non-reinforced Nylon-66.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-GLAMIDE-T-662-Nylon-66.php](http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-662-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	Absolute Drying; ASTM-D792
Water Absorption	1.2 %	1.2 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.5 %	2.5 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0060 - 0.012 cm/cm	0.0060 - 0.012 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	28.0 MPa	4060 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	38.0 MPa	5510 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	50.0 MPa	7250 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	82.0 MPa	11900 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	110 MPa	16000 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	116 MPa	16800 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

<b>Elongation at Break Mechanical Properties</b>	<b>120 % Metric</b>	<b>120 % English</b>	<b>Absolute Drying; ASTM-D638 Comments</b>
	>= 200 %	>= 200 %	Practical Use (Water Absorption 2.5%); ASTM-D638
<b>Flexural Strength</b>	40.0 MPa	5800 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	66.0 MPa	9570 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	66.0 MPa	9570 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	117 MPa	17000 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 MPa	17400 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	140 MPa	20300 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
<b>Flexural Modulus</b>	0.600 GPa	87.0 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.00 GPa	145 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.40 GPa	203 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.90 GPa	421 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.00 GPa	580 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.30 GPa	624 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
<b>Compressive Strength</b>	90.0 MPa	13100 psi	Absolute Drying; ASTM-D695
<b>Izod Impact, Notched</b>	0.350 J/cm	0.656 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.400 J/cm	0.749 ft-lb/in	Practical Use (Water Absorption 2.5%); ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	0.450 J/cm	0.645 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.00 J/cm	5.62 ft-lb/in	Practical Use (Water Absorption 2.5%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	8.0	8.0	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 - 1.00e+10 ohm-cm	1.00e+9 - 1.00e+10 ohm-cm	Practical Use (Water Absorption 2.5%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	3.9	3.9	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	6.5	6.5	Practical Use (Water Absorption 2.5%); ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	Practical Use (Water Absorption 2.5%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	20.0 kV/mm	508 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	110 sec	110 sec	Practical Use (Water Absorption 2.5%); ASTM-D495
	120 sec	120 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	

Mold Temperature Processing Properties	40.0 - 80.0 °C Metric	104 - 176 °F English	Comments
Injection Pressure	30.0 - 40.0 MPa	4350 - 5800 psi	

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