

Toyobo T-661 Nylon 66, Standard Grade (Conditioned)

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

Material Notes:

Features: Non-reinforced, Standard Grade
Information provided by Toyobo.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-T-661-Nylon-66-Standard-Grade-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	(DAM); ASTM D792
Water Absorption	1.2 %	1.2 %	24 hrs at 23°C (DAM); ASTM D570
	2.5 %	2.5 %	65% R.H. equilibrium (DAM); ASTM D570
Linear Mold Shrinkage	0.0060 - 0.012 cm/cm	0.0060 - 0.012 in/in	DAM
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	DAM
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ASTM D638
	110 MPa	16000 psi	ASTM D638
Tensile Strength, Ultimate	@Temperature -40.0 °C	@Temperature -40.0 °F	
	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	@Temperature 80.0 °C	@Temperature 176 °F	
	>= 200 %	>= 200 %	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
	40.0 MPa	5800 psi	ASTM D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	120 MPa	17400 psi	ASTM D790
Flexural Modulus	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.40 GPa	203 ksi	ASTM D790
	0.600 GPa	87.0 ksi	ASTM D790
	@Temperature 80.0 °C	@Temperature 176 °F	

Mechanical Properties	4.00 GPa Metric	580 ksi English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.00 J/cm	5.62 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 - 1.00e+13 ohm-cm	1.00e+12 - 1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	6.5	6.5	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	110 sec	110 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	(DAM)
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	(DAM)
Injection Pressure	30.0 - 40.0 MPa	4350 - 5800 psi	(DAM)

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