

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

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-DAM.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	82.0 MPa	11900 psi	ASTM D638
	116 MPa	16800 psi	ASTM D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ASTM D638
	@Temperature 80.0 °C	@Temperature 176 °F	
Elongation at Break	120 %	120 %	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
	66.0 MPa	9570 psi	ASTM D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	140 MPa	20300 psi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
	1.00 GPa	145 ksi	ASTM D790
	@Temperature 80.0 °C	@Temperature 176 °F	

Mechanical Properties	Metric	English	Comments
	4.30 GPa	622 ksi	ASTM D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	90.0 MPa	13100 psi	ASTM D695
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.450 J/cm	0.843 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	8.0	8.0	CS-17; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.9	3.9	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	120 sec	120 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	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	

Injection Pressure Processing Properties	30.0 - 40.0 MPa Metric	4350 - 5800 psi English	Comments
---	---------------------------	----------------------------	----------

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