

Ashley Polymers Ashlene® 527 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

A very high impact, slightly lubricated, nylon resin.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-527-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	ASTM D570
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	55 %	55 %	ASTM D638
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Izod Impact, Notched	9.61 J/cm	18.0 ft-lb/in	ASTM D256
	1.50 J/cm @Temperature -40.0 °C	2.81 ft-lb/in @Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	249 °C	480 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	193 °C	379 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.3 @Frequency 1000 Hz	3.3 @Frequency 1000 Hz	ASTM D150

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