

## Ashley Polymers Ashlene® 527LDW Nylon 66

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

**Material Notes:**

A specialized nylon with very high impact resistance.Data provided by the manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ashley-Polymers-Ashlene-527LDW-Nylon-66.php](http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-527LDW-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	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	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	55 %	55 %	ASTM D638
Flexural Modulus	1.70 GPa	247 ksi	ASTM D790
Izod Impact, Notched	10.13 J/cm	18.98 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	254 °C	489 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	2.9 @Frequency 1000 Hz	2.9 @Frequency 1000 Hz	ASTM D150

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