

## Ashley Polymers Ashlene® 528LW Nylon 66

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

**Material Notes:**

General purpose injection molding grade.Data provided by the manufacturer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ashley-Polymers-Ashlene-528LW-Nylon-66.php](http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-528LW-Nylon-66.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.5 %	1.5 %	ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Ultimate	81.0 MPa	11700 psi	ATSM D638
Elongation at Break	50 %	50 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	3.032 GPa	439.8 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
Shear Strength	65.0 MPa	9430 psi	ASTM D732
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	255 °C	491 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648
Brittleness Temperature	-79.0 °C	-110 °F	ASTM D746

Flammability UL 94 Thermal Properties	V-2 Metric	V-2 English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.1 @Frequency 1e+6 Hz	3.1 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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