

## Asahi Kasei Leona® 1300S Nylon 66

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

**Material Notes:**

General purpose grade. Good balance of flowability and mechanical properties. Applications: Connectors, washers, cable ties. Information provided by Asahi Kasei

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Leona-1300S-Nylon-66.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-1300S-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	Dry; ASTM D792
Water Absorption	2.5 %	2.5 %	Wet
Linear Mold Shrinkage	0.013 - 0.020 cm/cm	0.013 - 0.020 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	55	55	Wet; ASTM D785
	80	80	Dry; ASTM D785
Hardness, Rockwell R	108	108	Wet; ASTM D785
	120	120	Dry; ASTM D785
Tensile Strength, Yield	57.0 MPa	8270 psi	Wet; ASTM D638
	79.0 MPa	11500 psi	Dry; ASTM D638
Elongation at Break	50 %	50 %	Dry; ASTM D638
	250 %	250 %	Wet; ASTM D638
Flexural Strength	54.0 MPa	7830 psi	Wet; ASTM D790
	118 MPa	17100 psi	Dry; ASTM D790
Flexural Modulus	1.20 GPa	174 ksi	Wet; ASTM D790
	2.80 GPa	406 ksi	Dry; ASTM D790
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	Dry; ASTM D256
	1.47 J/cm	2.75 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	7.0	7.0	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
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Thermal Properties	80.0 µm/m-°C Metric	44.4 µm/in-°F English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	Dry; ASTM D696
Specific Heat Capacity	1.67 J/g-°C	0.399 BTU/lb-°F	Dry
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft²-°F	Dry
Deflection Temperature at 0.46 MPa (66 psi)	230 °C	446 °F	Dry; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	Dry; ASTM D648
Flammability, UL94	V-2	V-2	Dry
Oxygen Index	26 %	26 %	Dry; ASTM D2863

## Contact Songhan Plastic Technology Co.,Ltd.

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