

## Asahi Kasei Leona® CR301 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Suitable for a switch insulator. Low abrasion and superior electrical properties. Applications: Sliding switch insulators Information provided by Asahi Kasei

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Leona-CR301-Nylon-66.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-CR301-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	Dry; ASTM D792
Water Absorption	1.5 %	1.5 %	Wet
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Dry; ASTM D2863
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	Dry; ASTM D785
Tensile Strength, Yield	64.0 MPa	9280 psi	Wet; ASTM D638
	88.0 MPa	12800 psi	Dry; ASTM D638
Elongation at Break	3.0 %	3.0 %	Dry; ASTM D638
	3.5 %	3.5 %	Wet; ASTM D638
Flexural Strength	93.0 MPa	13500 psi	Wet; ASTM D790
	147 MPa	21300 psi	Dry; ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	Wet; ASTM D790
	5.90 GPa	856 ksi	Dry; ASTM D790
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	Dry; ASTM D256
	0.390 J/cm	0.731 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	8.0	8.0	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	22.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	Dry; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Deflection Temperature at 0.46 MPa Thermal Properties (107 (psi))	250 °C Metric	482 °F English	Dry; ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	Dry; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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