

Asahi Kasei Leona® 14G15 15% Glass Filled Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 20% Glass Fiber Filled

Material Notes:

15% Glass Fiber Reinforced. Enhanced strength and stiffness
Applications: Heater tanks, fuel injectors, ABS sensors, and other under-the-hood automotive parts
Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-14G15-15-Glass-Filled-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	Dry; ASTM D792
Water Absorption	2.1 %	2.1 %	Wet
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	Dry; ASTM D2863
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	71	71	Wet; ASTM D785
	94	94	Dry; ASTM D785
Hardness, Rockwell R	120	120	Dry; ASTM D785
Tensile Strength, Yield	79.0 MPa	11500 psi	Wet; ASTM D638
	108 MPa	15700 psi	Dry; ASTM D638
Elongation at Break	2.5 %	2.5 %	Dry; ASTM D638
	8.0 %	8.0 %	Wet; ASTM D638
Flexural Strength	108 MPa	15700 psi	Wet; ASTM D790
	167 MPa	24200 psi	Dry; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	Wet; ASTM D790
	4.90 GPa	711 ksi	Dry; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	Dry; ASTM D256
	0.590 J/cm	1.11 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	9.0	9.0	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
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Thermal Properties	40.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	22.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	258 $^\circ\text{C}$	496 $^\circ\text{F}$	Dry; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	240 $^\circ\text{C}$	464 $^\circ\text{F}$	Dry; ASTM D648
Flammability, UL94	HB	HB	Dry

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