

Asahi Kasei Leona® 14G33 33% Glass Filled Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Glass Fiber Filled

Material Notes:

Enhanced strength and stiffness; with 33% GF. Superior heat aging resistance, fatigue resistance, and creep resistance. Applications: Mechanical and electrical parts, engine mounts 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-14G33-33-Glass-Filled-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	Dry; ASTM D792
Water Absorption	1.7 %	1.7 %	Wet
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	Dry; ASTM D2863
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	Wet; ASTM D785
	96	96	Dry; ASTM D785
Hardness, Rockwell R	120	120	Dry; ASTM D785
Tensile Strength, Yield	135 MPa	19600 psi	Wet; ASTM D638
	210 MPa	30500 psi	Dry; ASTM D638
Elongation at Break	3.0 %	3.0 %	Dry; ASTM D638
	5.0 %	5.0 %	Wet; ASTM D638
Flexural Strength	210 MPa	30500 psi	Wet; ASTM D790
	325 MPa	47100 psi	Dry; ASTM D790
Flexural Modulus	6.30 GPa	914 ksi	Wet; ASTM D790
	10.4 GPa	1510 ksi	Dry; ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	Dry; ASTM D256
	1.70 J/cm	3.18 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	15	15	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Dry; ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² - $^{\circ}\text{F}$	Dry
Deflection Temperature at 0.46 MPa (66 psi)	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	Dry; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	250 $^{\circ}\text{C}$	482 $^{\circ}\text{F}$	Dry; ASTM D648
Flammability, UL94	HB	HB	Dry

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