

Asahi Kasei Leona® 13G25 25% Glass Filled Nylon 66

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

Material Notes:

Enhanced strength, stiffness and durability; with 25% GF. Applications: Automotive parts Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-13G25-25-Glass-Filled-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	Dry; ASTM D792
Water Absorption	1.9 %	1.9 %	Wet
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Dry; ASTM D2863
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	74	74	Wet; ASTM D785
	96	96	Dry; ASTM D785
Hardness, Rockwell R	120	120	Dry; ASTM D785
Tensile Strength, Yield	110 MPa	16000 psi	Wet; ASTM D638
	180 MPa	26100 psi	Dry; ASTM D638
Elongation at Break	3.0 %	3.0 %	Dry; ASTM D638
	6.0 %	6.0 %	Wet; ASTM D638
Flexural Strength	175 MPa	25400 psi	Wet; ASTM D790
	290 MPa	42100 psi	Dry; ASTM D790
Flexural Modulus	4.70 GPa	682 ksi	Wet; ASTM D790
	8.10 GPa	1170 ksi	Dry; ASTM D790
Izod Impact, Notched	1.05 J/cm	1.97 ft-lb/in	Dry; ASTM D256
	1.60 J/cm	3.00 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	12	12	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
	30.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	

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

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