

Asahi Kasei Leona® 90G50 50% Glass Filled Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Enhanced strength and stiffness; with 50% GF. Excellent appearance. Applications: Office furniture Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-90G50-50-Glass-Filled-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	Dry; ASTM D792
Water Absorption	1.1 %	1.1 %	Wet
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	Dry; ASTM D2863
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	Dry; ASTM D785
Hardness, Rockwell R	120	120	Dry; ASTM D785
Tensile Strength, Yield	196 MPa	28400 psi	Wet; ASTM D638
	235 MPa	34100 psi	Dry; ASTM D638
Elongation at Break	2.5 %	2.5 %	Dry; ASTM D638
	3.0 %	3.0 %	Wet; ASTM D638
Flexural Strength	304 MPa	44100 psi	Wet; ASTM D790
	373 MPa	54100 psi	Dry; ASTM D790
Flexural Modulus	12.1 GPa	1750 ksi	Wet; ASTM D790
	15.5 GPa	2250 ksi	Dry; ASTM D790
Izod Impact, Notched	1.27 J/cm	2.38 ft-lb/in	Dry; ASTM D256
	1.33 J/cm	2.49 ft-lb/in	Wet; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m/m}\cdot\text{°C}$	11.1 $\mu\text{in/in}\cdot\text{°F}$	Dry; ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	Dry; ASTM D648

[Thermal Properties](#)

[Metric](#)

[English](#)

[Comments](#)

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