

## Asahi Kasei Leona® 13G43 43% Glass Filled Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

### Material Notes:

43% Glass Fiber Reinforced. Enhanced strength and stiffness  
 Applications: Mechanical and electrical parts such as micromotors, automotive parts such as radiator tanks and shift levers  
 Information provided by Asahi Kasei

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Leona-13G43-43-Glass-Filled-Nylon-66.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-13G43-43-Glass-Filled-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	Dry; ASTM D792
Water Absorption	1.4 %	1.4 %	Wet
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Dry; ASTM D2863
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	Wet; ASTM D785
	96	96	Dry; ASTM D785
Hardness, Rockwell R	118	118	Dry; ASTM D785
Tensile Strength, Yield	157 MPa	22800 psi	Wet; ASTM D638
	196 MPa	28400 psi	Dry; ASTM D638
Elongation at Break	3.0 %	3.0 %	Dry; ASTM D638
	4.0 %	4.0 %	Wet; ASTM D638
Flexural Strength	235 MPa	34100 psi	Wet; ASTM D790
	314 MPa	45500 psi	Dry; ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	Wet; ASTM D790
	11.8 GPa	1710 ksi	Dry; ASTM D790
Izod Impact, Notched	1.27 J/cm	2.38 ft-lb/in	Dry; ASTM D256
	2.06 J/cm	3.86 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	19	19	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
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Thermal Properties	30.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	16.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	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

## Contact Songhan Plastic Technology Co.,Ltd.

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