

Asahi Kasei Leona® FR200 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

UL94 V-0; halogen-free and phosphor-free.Applications:Connectors, switches, and other electrical and electronic parts Information provided by Asahi Kasei

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-FR200-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	Dry; ASTM D792
Water Absorption	2.4 %	2.4 %	Wet
Linear Mold Shrinkage	0.013 - 0.020 cm/cm	0.013 - 0.020 in/in	Dry; ASTM D2863

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	Dry; ASTM D785
Hardness, Rockwell R	90	90	Wet; ASTM D785
	118	118	Dry; ASTM D785
Tensile Strength, Yield	47.0 MPa	6820 psi	Wet; ASTM D638
	79.0 MPa	11500 psi	Dry; ASTM D638
Elongation at Break	25 %	25 %	Dry; ASTM D638
	80 %	80 %	Wet; ASTM D638
Flexural Strength	44.0 MPa	6380 psi	Wet; ASTM D790
	118 MPa	17100 psi	Dry; ASTM D790
Flexural Modulus	1.10 GPa	160 ksi	Wet; ASTM D790
	2.90 GPa	421 ksi	Dry; ASTM D790
Izod Impact, Notched	0.290 J/cm	0.543 ft-lb/in	Dry; ASTM D256
	1.18 J/cm	2.21 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	8.0	8.0	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	Dry; ASTM D696

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
Specific Heat Capacity	1.67 J/g-°C	0.399 BTU/lb-°F	Dry
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft²-°F	Dry
Deflection Temperature at 0.46 MPa (66 psi)	209 °C	408 °F	Dry; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	Dry; ASTM D648
Flammability, UL94	V-0	V-0	Dry
Oxygen Index	32 %	32 %	Dry; ASTM D2863

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