Asahi Kasei Leona® 1700S Nylon 66

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

Material Notes:

Similar to 1500 but with even higher molecular weight. Suitable for extrusion of thick-wall parts.Applications:Rods, films Information provided by Asahi Kasei

Order this product through the following link:
http://www.lookpolymers.com/polymer_Asahi-Kasei-Leona-1700S-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	Dry; ASTM D792
Water Absorption	2.5 %	2.5 %	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	55	55	Wet; ASTM D785
	80	80	Dry; ASTM D785
Hardness, Rockwell R	105	105	Wet; ASTM D785
	120	120	Dry; ASTM D785
Tensile Strength, Yield	59.0 MPa	8560 psi	Wet; ASTM D638
	80.0 MPa	11600 psi	Dry; ASTM D638
Elongation at Break	100 %	100 %	Dry; ASTM D638
	300 %	300 %	Wet; ASTM D638
Flexural Strength	54.0 MPa	7830 psi	Wet; ASTM D790
	118 MPa	17100 psi	Dry; ASTM D790
Flexural Modulus	1.20 GPa	174 ksi	Wet; ASTM D790
	2.80 GPa	406 ksi	Dry; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	Dry; ASTM D256
	2.45 J/cm	4.59 ft-lb/in	Wet; ASTM D256
Taber Abrasion, mg/1000 Cycles	4.0	4.0	Wet; ASTM D1044

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	Dry; ASTM D696
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)	230 °C	446 °F	Dry; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	Dry; ASTM D648
Oxygen Index	23 %	23 %	Dry; ASTM D2863

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