

Firestone CLM200-001 Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Used for monofilament extrusion. Natural color. Not heat stabilized or modified. Lubricated. Chip size is 2 x 3.5 mm. Information provided by Firestone

Order this product through the following link:

http://www.lookpolymers.com/polymer_Firestone-CLM200-001-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Viscosity Measurement	3.2	3.2	Relative Viscosity; Sulfuric Acid
	82	82	Relative Viscosity; Formic Acid
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	81.4 MPa	11800 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	180 Â°C	356 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 Â°C	149 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	238 - 249 Â°C	460 - 480 Â°F	
Middle Barrel Temperature	238 - 249 Â°C	460 - 480 Â°F	
Front Barrel Temperature	243 - 260 Â°C	470 - 500 Â°F	
Nozzle Temperature	249 - 260 Â°C	480 - 500 Â°F	

Melt Temperature Processing Properties	249 - 260 Å°C Metric	480 - 500 Å°F English	Comments
Mold Temperature	48.9 - 82.2 Å°C	120 - 180 Å°F	
Drying Temperature	73.9 Å°C	165 Å°F	
Dry Time	4 hour	4 hour	
Moisture Content	<= 0.080 %	<= 0.080 %	

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