

Clariant 6008 L Nylon 6, High Impact, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Impact Grade

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-6008-L-Nylon-6-High-Impact-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D638
Elongation at Yield	350 %	350 %	ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	ASTM D790
Izod Impact, Notched	9.08 J/cm @Temperature 22.8 °C	17.0 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	210 - 212 °C	410 - 413 °F	
Deflection Temperature at 0.46 MPa (66 psi)	97.8 °C	208 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	37.8 °C	100 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 266 °C	480 - 510 °F	
Middle Barrel Temperature	249 - 266 °C	480 - 510 °F	
Front Barrel Temperature	254 - 271 °C	490 - 520 °F	
Nozzle Temperature	254 - 274 °C	490 - 525 °F	
Melt Temperature	254 - 271 °C	490 - 520 °F	
Mold Temperature	51.7 - 79.4 °C	125 - 175 °F	
Dry Time	2 - 4 hour	2 - 4 hour	to ensure moisture content is less

Processing Properties	@Temperature 79.4 °C Metric	@Temperature 175 °F English	than 0.2% Comments
Injection Pressure	4.14 - 6.21 MPa	600 - 900 psi	Secondary
	6.89 - 10.3 MPa	1000 - 1500 psi	Initial
Back Pressure	0.345 - 1.72 MPa	50.0 - 250 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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