

Clariant 612-01 HSL Black Nylon 612, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-612-01-HSL-Black-Nylon-612-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Filler Content	0.00 %	0.00 %	ASTM D2584
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 psi	ASTM D638
Elongation at Yield	75 %	75 %	ASTM D638
Flexural Yield Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Temperature 22.8 °C	0.700 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.7 °C	170 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	243 - 260 °C	470 - 500 °F	
Middle Barrel Temperature	243 - 260 °C	470 - 500 °F	
Front Barrel Temperature	243 - 260 °C	470 - 500 °F	
Nozzle Temperature	254 - 271 °C	490 - 520 °F	
Melt Temperature	249 - 266 °C	480 - 510 °F	
Mold Temperature	79.4 - 121 °C	175 - 250 °F	
Dry Time	2 - 4 hour @Temperature 79.4 °C	2 - 4 hour @Temperature 175 °F	to ensure moisture content of 0.2% or less
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary

Processing Properties	Metric	English	Comments
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.517 MPa	75.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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