

Clariant 6004G13-HSL BK UV Black Nylon 6, 13% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 10% Glass Fiber Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-6004G13-HSL-BK-UV-Black-Nylon-6-13-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Filler Content	13 %	13 %	ASTM D2584
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	72.4 MPa	10500 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature 22.8 °C	1.50 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	199 °C	390 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	188 °C	370 °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	79.4 - 121 °C	175 - 250 °F	

Processing Properties	2 - 4 hour Metric	2 - 4 hour English	Comments
	@Temperature 79.4 °C	@Temperature 175 °F	moisture content of 0.2% or less
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 MPa	50.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	20 - 100 rpm	20 - 100 rpm	

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