

Clariant 66G43HLS-Black Nylon 66, 43% Glass Fiber Reinforced, Heat Stabilized, Lubricated

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-66G43HLS-Black-Nylon-66-43-Glass-Fiber-Reinforced-Heat-Stabilized-Lubricated.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	165 MPa	24000 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Yield Strength	234 MPa	34000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Temperature 22.8 °C	1.60 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	257 °C	494 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	253 °C	487 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 282 °C	480 - 540 °F	
Middle Barrel Temperature	254 - 288 °C	490 - 550 °F	
Front Barrel Temperature	260 - 293 °C	500 - 560 °F	
Nozzle Temperature	266 - 299 °C	510 - 570 °F	
Melt Temperature	260 - 293 °C	500 - 560 °F	
Mold Temperature	79.4 - 135 °C	175 - 275 °F	

Processing Properties	2 - 4 hour Metric	2 - 4 hour English	Comments <small>to avoid degradation of mechanical properties</small>
	@Temperature 79.4 °C	@Temperature 175 °F	
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.172 - 0.345 MPa	25.0 - 50.0 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	75 rpm	75 rpm	

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