

Clariant 6602-L BK-02 Nylon 66, Lubricated, Nucleated, Weather Resistant, Black

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-6602-L-BK-02-Nylon-66-Lubricated-Nucleated-Weather-Resistant-Black.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.012 - 0.017 cm/cm	0.012 - 0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.3 MPa	10200 psi	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
Flexural Yield Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Temperature 22.8 °C	0.900 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	224 °C	435 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C	178 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 288 °C	500 - 550 °F	
Middle Barrel Temperature	260 - 288 °C	500 - 550 °F	
Front Barrel Temperature	266 - 293 °C	510 - 560 °F	
Nozzle Temperature	266 - 293 °C	510 - 560 °F	
Melt Temperature	266 - 288 °C	510 - 550 °F	
Mold Temperature	54.4 - 82.2 °C	130 - 180 °F	

Processing Properties	2 - 4 hour Metric	2 - 4 hour English	Comments
	@Temperature 79.4 °C	@Temperature 175 °F	to ensure moisture content is less than 0.2%
Injection Pressure	4.96 - 8.27 MPa	720 - 1200 psi	Secondary
	8.27 - 13.8 MPa	1200 - 2000 psi	Initial
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	30 - 80 %	30 - 80 %	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

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