

LTL Color Compounds ColorFast® NY1GF130 Nylon 6, 13% Glass-Filled

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

Material Notes:

13% glass-filled nylon 6 All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-NY1GF130-Nylon-6-13-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	1.5 %	1.5 %	@ 24 Hours; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.010 cm/cm	0.0030 - 0.010 in/in	0.125; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	96.5 MPa	14000 psi	2.0 in/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	2.0 in/min; ASTM D638
Elongation at Yield	6.0 %	6.0 %	2.0 in/min; ASTM D638
Flexural Strength	138 MPa	20000 psi	2.0 in/min; ASTM D790
Flexural Modulus	4.27 GPa	620 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 °C	1.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	Unannealed (0.250"); ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 293 °C	500 - 560 °F	
Middle Barrel Temperature	266 - 293 °C	510 - 560 °F	
Front Barrel Temperature	266 - 293 °C	510 - 560 °F	
Nozzle Temperature	260 - 288 °C	500 - 550 °F	
Melt Temperature	279 - 304 °C	535 - 580 °F	

Mold Temperature Processing Properties	37.8 - 93.3 °C Metric	100 - 200 °F English	Comments
Drying Temperature	82.2 °C	180 °F	
Dry Time	2 - 4 hour	2 - 4 hour	nominal; maximum drying time of 8 hours
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	30 - 60 %	30 - 60 %	
Vent Depth	0.00381 - 0.00762 cm	0.00150 - 0.00300 in	
Screw Speed	60 - 120 rpm	60 - 120 rpm	

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