

LTL Color Compounds ColorFast® PCGF120 Polycarbonate, 20% Glass-Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

20% glass-filled grade, good balance of impact and mechanical propertiesAll information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-PCGF120-Polycarbonate-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	0.125; ASTM D955
Melt Flow	7.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	7.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Tensile Strength, Yield	79.3 MPa	11500 psi	2.0 in/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	2.0 in/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	2.0 in/min; ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 Â°C	2.00 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	146 Â°C	295 Â°F	Unannealed (0.250"); ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	293 - 316 Â°C	560 - 600 Â°F	
Middle Barrel Temperature	304 - 327 Â°C	580 - 620 Â°F	
Front Barrel Temperature	316 - 338 Â°C	600 - 640 Â°F	
Nozzle Temperature	310 - 332 Â°C	590 - 630 Â°F	
Melt Temperature	316 - 338 Â°C	600 - 640 Â°F	

Processing Properties	Metric16 Â°C	English10 Â°F	Comments
Drying Temperature	121 Â°C	250 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	nominal; maximum drying time of 48 hours
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	40 - 60 %	40 - 60 %	
Vent Depth	0.00254 - 0.00762 cm	0.00100 - 0.00300 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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