

LTL Color Compounds ColorFast® PC150 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

15 melt high flow polycarbonateAll information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-PC150-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	0.125; ASTM D955
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 Â°C	15 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Tensile Strength at Break	68.9 MPa	10000 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	2.0 in/min; ASTM D638
Elongation at Break	130 %	130 %	2.0 in/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	2.0 in/min; ASTM D638
Flexural Strength	96.5 MPa	14000 psi	2.0 in/min; ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	6.94 J/cm @Temperature 22.8 Â°C	13.0 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	265 Â°F	Unannealed (0.250"); ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 282 Â°C	500 - 540 Â°F	
Middle Barrel Temperature	271 - 293 Â°C	520 - 560 Â°F	
Front Barrel Temperature	282 - 304 Â°C	540 - 580 Â°F	

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 304 Â°C	540 - 580 Â°F	
Mold Temperature	71.1 - 93.3 Â°C	160 - 200 Â°F	
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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