

LTL Color Compounds ColorFast® FRPC400 Polycarbonate, Flame-Retarded

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Flame-retarded V0, high impact injection molding polycarbonate All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPC400-Polycarbonate-Flame-Retarded.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 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	11 g/10 min @Load 1.20 kg, Temperature 300 °C	11 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Tensile Strength at Break	55.2 MPa	8000 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	2.0 in/min; ASTM D638
Elongation at Break	90 %	90 %	2.0 in/min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	2.0 in/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	2.0 in/min; ASTM D790
Flexural Modulus	2.24 GPa	325 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	6.41 J/cm @Temperature 22.8 °C	12.0 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	Unannealed (0.250"); ASTM D648
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 - 250 V @Thickness 3.00 mm	175 - 250 V @Thickness 0.118 in	UL

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	271 - 293 °C	520 - 560 °F	
Middle Barrel Temperature	282 - 304 °C	540 - 580 °F	
Front Barrel Temperature	293 - 316 °C	560 - 600 °F	
Nozzle Temperature	288 - 310 °C	550 - 590 °F	
Melt Temperature	293 - 316 °C	560 - 600 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	121 °C	250 °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	

Descriptive Properties	Value	Comments
UL File Number	E178307	

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