

LTL Color Compounds ColorFast® FRPC310 Polycarbonate, Flame-Retarded

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

V0-rated 10% glass-filled polycarbonate, excellent impact strength All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPC310-Polycarbonate-Flame-Retarded.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	0.125; ASTM D955
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Tensile Strength at Break	55.2 MPa	8000 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	66.2 MPa	9600 psi	2.0 in/min; ASTM D638
Elongation at Break	15 %	15 %	2.0 in/min; ASTM D638
Elongation at Yield	8.0 %	8.0 %	2.0 in/min; ASTM D638
Flexural Strength	103 MPa	15000 psi	2.0 in/min; ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	142 °C	288 °F	Unannealed (0.250"); ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	288 - 310 °C	550 - 590 °F	
Middle Barrel Temperature	299 - 321 °C	570 - 610 °F	
Front Barrel Temperature	310 - 332 °C	590 - 630 °F	
Nozzle Temperature	304 - 327 °C	580 - 620 °F	
Melt Temperature	310 - 332 °C	590 - 630 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °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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