

LTL Color Compounds ColorFast[®] FRPBT150 PBT, 13% Glass-Filled, Flame Retarded

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

Material Notes:

13% glass-filled V-0 rated PBT All information provided by LTL Color Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPBT150-PBT-13-Glass-Filled-Flame-Retarded.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	0.125; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	82.7 MPa	12000 psi	2.0 in/min; ASTM D638
Flexural Strength	145 MPa	21000 psi	2.0 in/min; ASTM D790
Flexural Modulus	4.34 GPa	630 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature 22.8 Â°C	1.00 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	182 Â°C	360 Â°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	243 - 266 Â°C	470 - 510 Â°F	
Middle Barrel Temperature	249 - 271 Â°C	480 - 520 Â°F	
Front Barrel Temperature	254 - 277 Â°C	490 - 530 Â°F	
Nozzle Temperature	249 - 271 Â°C	480 - 520 Â°F	
Melt Temperature	254 - 277 Â°C	490 - 530 Â°F	
Mold Temperature	65.6 - 87.8 Â°C	150 - 190 Â°F	

Processing Properties	Metric	English	Comments
Drying Temperature	121°C	250°F	
Dry Time	3 - 4 hour	3 - 4 hour	nominal; maximum drying time of 12 hours
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	40 - 60 %	40 - 60 %	
Vent Depth	0.00127 - 0.00254 cm	0.000500 - 0.00100 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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