

LTL Color Compounds ColorFast[®] FRPBT130 PBT, 30% Glass-Filled

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

30% glass-filled V-0 rated PBT - UL listed All information provided by LTL Color Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPBT130-PBT-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 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	186 MPa	27000 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	117 MPa	17000 psi	2.0 in/min; ASTM D638
Flexural Modulus	7.58 GPa	1100 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	0.694 J/cm @Temperature 22.8 Â°C	1.30 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	400 Â°F	Unannealed (0.250"); ASTM D648
Flammability, UL94	V-0 @Thickness 0.830 mm	V-0 @Thickness 0.0327 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	

Drying Temperature Processing Properties	121 Å°C Metric	250 Å°F English	Comments
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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