

LTL Color Compounds ColorFast® FRPBT220 PBT, Flame Retarded

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Flame Retardant

Material Notes:

Super tough, flame retarded unreinforced All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPBT220-PBT-Flame-Retarded.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Linear Mold Shrinkage	0.022 cm/cm	0.022 in/in	0.125; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	40.0 MPa	5800 psi	2.0 in/min; ASTM D638
Elongation at Break	145 %	145 %	2.0 in/min; ASTM D638
Flexural Strength	97.2 MPa	14100 psi	2.0 in/min; ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	2.0 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 - 249 °C	450 - 480 °F	
Middle Barrel Temperature	238 - 254 °C	460 - 490 °F	
Front Barrel Temperature	243 - 260 °C	470 - 500 °F	
Nozzle Temperature	238 - 254 °C	460 - 490 °F	
Melt Temperature	243 - 260 °C	470 - 500 °F	
Mold Temperature	48.9 - 76.7 °C	120 - 170 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	3 - 4 hour	3 - 4 hour	nominal; maximum drying time of 12 hours

Back Pressure Processing Properties	0.345 - 0.689 MPa Metric	50.0 - 100 psi English	Comments
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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