

LTL Color Compounds ColorFast® FRPBT210 PBT, Flame Retarded, Impact Modified

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

Material Notes:

V-0 rated, impact modified unfilled 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-FRPBT210-PBT-Flame-Retarded-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 - 0.014 cm/cm	0.010 - 0.014 in/in	0.125; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength at Break	48.3 MPa	7000 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	48.3 MPa	7000 psi	2.0 in/min; ASTM D638
Elongation at Break	110 %	110 %	2.0 in/min; ASTM D638
Flexural Strength	82.7 MPa	12000 psi	2.0 in/min; ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	5.34 J/cm @Temperature 22.8 °C	10.0 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.9 °C	210 °F	Unannealed (0.250"); ASTM D648

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 Processing Properties	48.9 - 76.7 Å°C Metric	120 - 170 Å°F English	Comments
Drying Temperature	121 Å°C	250 Å°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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