

LTL Color Compounds ColorFast® GPA100 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Impact Grade, Molded

Material Notes:

High impact, high gloss injection molding ABS, HB-rated, FDAAll information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-GPA100-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	0.125; ASTM D955
Melt Flow	4.0 g/10 min @Load 3.80 kg, Temperature 230 °C	4.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	31.7 MPa	4600 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	44.8 MPa	6500 psi	2.0 in/min; ASTM D638
Elongation at Break	26 %	26 %	2.0 in/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	2.0 in/min; ASTM D638
Flexural Strength	68.9 MPa	10000 psi	2.0 in/min; ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	3.20 J/cm @Temperature 22.8 °C	6.00 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	Unannealed (0.250"); ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 210 °C	370 - 410 °F	

Middle Barrel Temperature Processing Properties	204 - 227 °C Metric	400 - 440 °F English	Comments
Front Barrel Temperature	216 - 238 °C	420 - 460 °F	
Nozzle Temperature	218 - 260 °C	425 - 500 °F	
Melt Temperature	218 - 260 °C	425 - 500 °F	
Mold Temperature	48.9 - 71.1 °C	120 - 160 °F	
Drying Temperature	82.2 - 93.3 °C	180 - 200 °F	
Dry Time	2 - 4 hour	2 - 4 hour	nominal; maximum drying time of 8 hours
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	30 - 60 %	30 - 60 %	
Vent Depth	0.00381 - 0.00508 cm	0.00150 - 0.00200 in	
Screw Speed	30 - 60 rpm	30 - 60 rpm	

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