

LTL Color Compounds ColorFast® GPA300 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Super-tough ABS with our highest impact strength, injection moldingAll information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-GPA300-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 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	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength at Break	29.0 MPa	4200 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	2.0 in/min; ASTM D638
Elongation at Break	50 %	50 %	2.0 in/min; ASTM D638
Elongation at Yield	3.0 %	3.0 %	2.0 in/min; ASTM D638
Flexural Strength	58.6 MPa	8500 psi	2.0 in/min; ASTM D790
Flexural Modulus	1.90 GPa	275 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	3.74 J/cm	7.00 ft-lb/in	ASTM D256
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.8 °C	181 °F	Unannealed (0.250"); ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	188 - 210 °C	370 - 410 °F	
Middle Barrel Temperature	204 - 227 °C	400 - 440 °F	
Front Barrel Temperature	216 - 238 °C	420 - 460 °F	

Nozzle Temperature Processing Properties	218 - 260 °C Metric	425 - 500 °F English	Comments
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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