

## LTL Color Compounds ColorFast® JCT1000 Polycarbonate-ABS-SMA Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC) , SMA Polymer

### Material Notes:

Unique PC/ABS/SMA alloy with improved processing and reduced plate-out All information provided by LTL Color Compounds, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LTL-Color-Compounds-ColorFast-JCT1000-Polycarbonate-ABS-SMA-Alloy.php](http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-JCT1000-Polycarbonate-ABS-SMA-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	0.125; ASTM D955
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 260 °C	14 g/10 min @Load 4.76 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength at Break	55.8 MPa	8100 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	2.0 in/min; ASTM D638
Elongation at Break	90 %	90 %	2.0 in/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	2.0 in/min; ASTM D638
Flexural Strength	95.1 MPa	13800 psi	2.0 in/min; ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	6.41 J/cm @Temperature 22.8 °C	12.0 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	Unannealed (0.250"); ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 254 °C	410 - 490 °F	
Middle Barrel Temperature	216 - 260 °C	420 - 500 °F	
Front Barrel Temperature	227 - 274 °C	440 - 525 °F	

<b>Nozzle Temperature Processing Properties</b>	<b>232 - 274 °C Metric</b>	<b>450 - 525 °F English</b>	<b>Comments</b>
Melt Temperature	232 - 274 °C	450 - 525 °F	
Mold Temperature	60.0 - 82.2 °C	140 - 180 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	3 - 4 hour	3 - 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 - 0.00762 cm	0.00150 - 0.00300 in	
Screw Speed	30 - 75 rpm	30 - 75 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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