

LTL Color Compounds ColorFast® FRPS100 Styrene, High Impact

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant , Polystyrene, Impact Modified

Material Notes:

V1-rated high impact styreneAll information provided by LTL Color Compounders, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LTL-Color-Compounds-ColorFast-FRPS100-Styrene-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	0.125; ASTM D955
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	55	55	ASTM D785
Tensile Strength at Break	20.7 MPa	3000 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	19.3 MPa	2800 psi	2.0 in/min; ASTM D638
Elongation at Break	40 %	40 %	2.0 in/min; ASTM D638
Flexural Modulus	1.86 GPa	270 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 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)	82.2 °C	180 °F	Unannealed (0.250"); ASTM D648
Flammability, UL94	V-1	V-1	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 199 °C	340 - 390 °F	
Middle Barrel Temperature	193 - 227 °C	380 - 440 °F	
Front Barrel Temperature	218 - 254 °C	425 - 490 °F	
Nozzle Temperature	204 - 232 °C	400 - 450 °F	

Melt Temperature Processing Properties	204 - 238 °C Metric	400 - 460 °F English	Comments
Mold Temperature	10.0 - 71.1 °C	50.0 - 160 °F	
Drying Temperature	71.1 °C	160 °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	40 - 60 %	40 - 60 %	
Vent Depth	0.00254 - 0.00762 cm	0.00100 - 0.00300 in	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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