

Star Plastics PC731 Molding Grade PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Star-Plastics-PC731-Molding-Grade-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	4.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C	4.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D638
Flexural Yield Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	8.01 J/cm	15.0 ft-lb/in	73Â°F, 0.125 in.; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	129 Â°C	265 Â°F	unannealed, .125in; ASTM D648
Flammability, UL94	HB	HB	.062in
	V-2	V-2	.062in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	288 - 316 Â°C	550 - 600 Â°F	
Middle Barrel Temperature	302 - 329 Â°C	575 - 625 Â°F	
Front Barrel Temperature	316 - 343 Â°C	600 - 650 Â°F	
Nozzle Temperature	316 - 343 Â°C	600 - 650 Â°F	

Processing Properties	Metric	English	Comments
Mold Temperature	79.4 - 107 Â°C	175 - 225 Â°F	
Drying Temperature	121 Â°C	250 Â°F	
Dry Time	4 hour	4 hour	
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	
Screw Speed	40 - 100 rpm	40 - 100 rpm	

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