

Mitsubishi Iupilon® S3001R 16.5 MFI FDA Compliant Polycarbonate With Release

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mitsubishi-Iupilon-S3001R-165-MFI-FDA-Compliant-Polycarbonate-With-Release.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	24 hours at 73°F
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
Melt Flow	16.5 g/10 min @Load 1.20 kg, Temperature 300 °C	16.5 g/10 min @Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	65	65	ASTM D785
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength, Ultimate	66.5 MPa @Thickness 3.17 mm	9650 psi @Thickness 0.125 in	
Tensile Strength, Yield	60.3 MPa @Thickness 3.17 mm	8750 psi @Thickness 0.125 in	
Elongation at Break	120 % @Thickness 3.17 mm	120 % @Thickness 0.125 in	
Flexural Yield Strength	85.1 MPa @Thickness 3.17 mm	12300 psi @Thickness 0.125 in	
Flexural Modulus	2.25 GPa @Thickness 3.17 mm	326 ksi @Thickness 0.125 in	
Izod Impact, Notched	8.81 J/cm @Thickness 3.17 mm	16.5 ft-lb/in @Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	117 Åum/m-Â°C	65.0 Åin/in-Â°F	ASTM D696
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C	262 Â°F	ASTM D648
Flammability, UL94	V-2	V-2	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.585	1.585	nD
Transmission, Visible	87 %	87 %	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 Â°C	480 - 520 Â°F	
Middle Barrel Temperature	260 - 271 Â°C	500 - 520 Â°F	
Front Barrel Temperature	271 - 288 Â°C	520 - 550 Â°F	
Nozzle Temperature	266 - 282 Â°C	510 - 540 Â°F	
Melt Temperature	277 - 293 Â°C	530 - 560 Â°F	
Mold Temperature	71.1 - 93.3 Â°C	160 - 200 Â°F	
Drying Temperature	121 Â°C	250 Â°F	
Dry Time	3 - 4 hour	3 - 4 hour	48 hours max.
Injection Pressure	68.9 - 124 MPa	10000 - 18000 psi	
Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	
Clamp Pressure	27.6 - 68.9 MPa	4000 - 10000 psi	
Shot Size	40 - 60 %	40 - 60 %	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

Descriptive Properties	Value	Comments
Injection Speed- Edge Gate	Slow to Medium	
Injection Speed- Tab Gate	Medium to Fast	

Injection Speed- Tunnel Gate Descriptive Properties	Fast Value	Comments
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