

Mitsubishi Iupilon[®] H2001R

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

Vendors:

No vendors are listed for this material. Please click [here](#) if you are a supplier and would like information on how to add your listing to this material.

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	23 g/10 min @Load 1.20 kg, Temperature 300 °C	23 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	63.6 MPa @Thickness 3.17 mm	9220 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	6.94 J/cm @Thickness 3.17 mm	13.0 ft-lb/in @Thickness 0.125 in	

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

Optical Properties	Metric	English	Comments
Refractive Index	1.585 @Wavelength 589.3 nm	1.585 @Wavelength 589.3 nm	nD

Transmission, Visible	87 %	87 %
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Processing Properties	Metric	English	Comments
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Rear Barrel Temperature	243 - 260 °C	470 - 500 °F	
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Middle Barrel Temperature	249 - 260 °C	480 - 500 °F	
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Front Barrel Temperature	260 - 271 °C	500 - 520 °F	
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Nozzle Temperature	254 - 271 °C	490 - 520 °F	
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Melt Temperature	260 - 282 °C	500 - 540 °F	
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Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
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Drying Temperature	121 °C	250 °F	
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Dry Time	3 - 4 hour	3 - 4 hour	48 hours max.
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Injection Pressure	51.7 - 124 MPa	7500 - 18000 psi	
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Back Pressure	0.345 - 1.38 MPa	50.0 - 200 psi	
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Clamp Pressure	27.6 - 68.9 MPa	4000 - 10000 psi	
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Shot Size	40 - 60 %	40 - 60 %	
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Screw Speed	40 - 70 rpm	40 - 70 rpm	
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Compliance Properties	Metric	English	Comments
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FDA	Yes	Yes	
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Descriptive Properties

Injection Speed- Edge Gate	Slow to Medium
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Injection Speed- Tab Gate	Medium to Fast
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Injection Speed- Tunnel Gate	Fast
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