Iupilon™ S-2000UR

Polycarbonate

Mitsubishi Engineering-Plastics Corp

PROSPECTOR®
www.ulprospector.com

Technical Data

Product Description			
Medium Viscosity, UV stabilized, Mold release improved			
General			
Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet		
UL Yellow Card [2]	• E41179-231969		
Search for UL Yellow Card	• Mitsubishi Engineering-Plastics Corp • Iupilon™		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• UV Stabilizer		
Features	• Good Mold Release • Light Stabilized	• Medium Viscosity • UV Stabilized	• Weather Resistant
Uses	• General Purpose		
Automotive Specifications	• FORD WSS-M4D1051-A2 Color: ZTCAXXJ	• GM GMP.PC.008	

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	9.00	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.70	%	
Flow	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.24	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2400	MPa	ISO 527-2/1
Tensile Stress (Yield)	61.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	5.6	%	
Break	110	%	
Flexural Modulus [4]	2300	MPa	ISO 178
Flexural Stress [4]	93.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	76	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	143	°C	ISO 75-2/B
1.8 MPa, Unannealed	129	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	6.5E-5	cm/cm/°C	
Transverse	6.6E-5	cm/cm/°C	

Form No. TDS-34360-en

Document Created: Thursday, January 31, 2019
Added to Prospector: November 2000
Last Updated: 11/26/2018

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	31	kV/mm	
3.00 mm	18	kV/mm	
Dielectric Constant			IEC 60250
1 MHz	3.10		
100 MHz	3.10		
Dissipation Factor			IEC 60250
1 MHz	9.0E-3		
100 MHz	6.0E-4		
Comparative Tracking Index (CTI)	PLC 2		UL 746

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	120	°C
Drying Time - Hot Air Dryer	4.0 to 8.0	hr
Rear Temperature	270 to 300	°C
Middle Temperature	270 to 300	°C
Front Temperature	270 to 300	°C
Nozzle Temperature	270 to 300	°C
Mold Temperature	70 to 100	°C

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

[3] Typical properties: these are not to be construed as specifications.

[4] 2.0 mm/min

Form No. TDS-34360-en
Document Created: Thursday, January 31, 2019
Added to Prospector: November 2000
Last Updated: 11/26/2018