

# Iupilon™ S-3000VUR

Polycarbonate

Mitsubishi Engineering-Plastics Corp

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Low Viscosity, V-2, UV stabilized, Mold release improved

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E41179-231972</a>
Search for UL Yellow Card	• <a href="#">Mitsubishi Engineering-Plastics Corp</a> • <a href="#">Iupilon™</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• UV Stabilizer
Features	• Good Mold Release • High Flow • Light Stabilized • Low Viscosity • UV Stabilized • Weather Resistant
Uses	• General Purpose

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm <sup>3</sup>	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	15 g/10 min	15 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	0.854 in <sup>3</sup> /10min	14.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.70 %	0.50 to 0.70 %	
Flow	0.50 to 0.70 %	0.50 to 0.70 %	
Water Absorption (Saturation, 73°F (23°C))	0.24 %	0.24 %	ISO 62

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	348000 psi	2400 MPa	ISO 527-2/1
Tensile Stress (Yield)	8990 psi	62.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.7 %	6.7 %	
Break	120 %	120 %	
Flexural Modulus <sup>4</sup>	334000 psi	2300 MPa	ISO 178
Flexural Stress <sup>4</sup>	13500 psi	93.0 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	32 ft·lb/in <sup>2</sup>	67 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	No Break	No Break	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	282 °F	139 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	255 °F	124 °C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	
Transverse	3.7E-5 in/in/°F	6.6E-5 cm/cm/°C	



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Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	6.0E+15 ohms	6.0E+15 ohms	IEC 60093
Volume Resistivity	3.0E+16 ohms·cm	3.0E+16 ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
0.0394 in (1.00 mm)	790 V/mil	31 kV/mm	
0.118 in (3.00 mm)	460 V/mil	18 kV/mm	
Dielectric Constant			IEC 60250
1 MHz	3.10	3.10	
100 MHz	3.10	3.10	
Dissipation Factor			IEC 60250
1 MHz	9.0E-3	9.0E-3	
100 MHz	6.0E-4	6.0E-4	
Comparative Tracking Index (CTI)	PLC 2	PLC 2	UL 746
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.015 in (0.38 mm)	V-2	V-2	
0.06 in (1.5 mm)	V-2	V-2	
0.12 in (3.0 mm)	V-2	V-2	

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Hot Air Dryer	248 °F	120 °C
Drying Time - Hot Air Dryer	4.0 to 8.0 hr	4.0 to 8.0 hr
Rear Temperature	518 to 572 °F	270 to 300 °C
Middle Temperature	518 to 572 °F	270 to 300 °C
Front Temperature	518 to 572 °F	270 to 300 °C
Nozzle Temperature	518 to 572 °F	270 to 300 °C
Mold Temperature	158 to 212 °F	70 to 100 °C

**Notes**

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 0.079 in/min (2.0 mm/min)



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## Where to Buy

### Supplier

#### Mitsubishi Engineering-Plastics Corp

, Japan

Telephone: +81-463-21-8610

Web: <http://www.m-ep.co.jp/>

### Distributor

#### Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.com/>

Availability: North America

#### Chase Plastic Services, Inc.

*Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>*

Telephone: 800-232-4273

Web: <http://www.chaseplastics.com/>

Availability: North America

#### Nexeo Solutions - Europe

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

Telephone: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

Availability: Bulgaria, Czech Republic, France, Latvia, Lithuania, Poland, Romania, Russian Federation, Slovakia

#### Plastribution

Telephone: +44-845-345-4560

Web: <http://www.plastribution.co.uk/>

Availability: United Kingdom

#### The Materials Group

Telephone: 616-863-6046

Web: <http://thematerialsgroup.com/>

Availability: North America

