

Iupilon® DS3002R 7011A

Polycarbonate

Mitsubishi Engineering-Plastics Corp

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Iupilon® DS3002R 7011A is a Polycarbonate (PC) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupilon® DS3002R 7011A: Flame Rated.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E41179-231827
Search for UL Yellow Card	• Mitsubishi Engineering-Plastics Corp • Iupilon®
Availability	• Asia Pacific • Europe • North America
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm³	1.20 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	19 g/10 min	19 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	1.16 in³/10min	19.0 cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 0.126 in (3.20 mm)	0.50 to 0.70 %	0.50 to 0.70 %	
Flow : 0.126 in (3.20 mm)	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	363000 psi	2500 MPa	ISO 527-2
Tensile Stress (Yield)	8560 psi	59.0 MPa	ISO 527-2
Tensile Strain (Yield)	6.5 %	6.5 %	ISO 527-2
Nominal Tensile Strain at Break	120 %	120 %	ISO 527-2
Flexural Modulus	334000 psi	2300 MPa	ISO 178
Flexural Strength	12900 psi	89.0 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.3 ft·lb/in²	9.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	277 °F	136 °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	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	6.0E+15 ohm	6.0E+15 ohm	IEC 60093
Volume Resistivity	3.0E+16 ohm·cm	3.0E+16 ohm·cm	IEC 60093
Comparative Tracking Index (CTI)	PLC 2	PLC 2	UL 746

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0157 in (0.400 mm))	V-2	V-2	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	4.0 to 8.0 hr	4.0 to 8.0 hr
Rear Temperature	500 to 536 °F	260 to 280 °C



Iupilon® DS3002R 7011A

Polycarbonate

Mitsubishi Engineering-Plastics Corp

PROSPECTOR®

www.ulprospector.com

Injection	Nominal Value (English)	Nominal Value (SI)
Middle Temperature	518 to 554 °F	270 to 290 °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	70.0 to 100 °C
Injection Pressure	7250 to 21800 psi	50.0 to 150 MPa
Screw Speed	50 to 100 rpm	50 to 100 rpm

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.



Iupilon® DS3002R 7011A

Polycarbonate

Mitsubishi Engineering-Plastics Corp

PROSPECTOR®

www.ulprospector.com

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

EnCom, Inc.

Telephone: 866-481-7700

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

Availability: North America

M. Holland Canada Company

Telephone: 905-665-1168

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

Availability: Canada

M. Holland Company

Telephone: 855-497-1403

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

Availability: Mexico, United States

Plastribution

Telephone: +44-845-345-4560

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

Availability: United Kingdom

TER HELL PLASTIC GMBH

TER HELL PLASTIC is a Pan European distribution company. Contact TER HELL PLASTIC for availability of individual products by country.

Telephone: +49-232-3941-0

Web: <http://www.terhell.de/>

Availability: Europe

Tex-Co Resin Distribution, Inc.

Telephone: 877-908-3926

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

Availability: North America

The Materials Group

Telephone: 616-863-6046

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

Availability: North America

