

TARFLON™ IVY2200R

Polycarbonate

Idemitsu Kosan Co., Ltd.

PROSPECTOR®

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Technical Data

Product Description

Transparency, UV resistance

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
UL Yellow Card ²	• E48268-240367		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good UV Resistance		
UL File Number	• E48268		
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm ³	1.20 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	0.732 in ³ /10min	12.0 cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 0.0787 in (2.00 mm)	0.50 to 0.70 %	0.50 to 0.70 %	
Flow : 0.0787 in (2.00 mm)	0.50 to 0.70 %	0.50 to 0.70 %	
Water Absorption ⁴			ISO 62
Equilibrium, 73°F (23°C), 50% RH	0.23 %	0.23 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	9430 psi	65.0 MPa	ISO 527-2
Nominal Tensile Strain at Break	95 %	95 %	ISO 527-2
Flexural Modulus	334000 psi	2300 MPa	ISO 178
Flexural Stress	13100 psi	90.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	38 ft·lb/in ²	80 kJ/m ²	ISO 179
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness			ISO 2039-2
M-Scale	50	50	
R-Scale	120	120	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	284 °F	140 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	257 °F	125 °C	ISO 75-2/A
CLTE - Flow	3.6E-5 in/in/°F	6.5E-5 cm/cm/°C	ISO 11359-2
RTI Elec (0.0591 in (1.50 mm))	266 °F	130 °C	UL 746
RTI Imp (0.0591 in (1.50 mm))	257 °F	125 °C	UL 746
RTI Str (0.0591 in (1.50 mm))	266 °F	130 °C	UL 746
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Electric Strength	760 V/mil	30 kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.85	2.85	IEC 60250
Arc Resistance	PLC 6	PLC 6	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.118 in (3.00 mm))	V-0	V-0	UL 94
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Transmittance	85.0 to 89.0 %	85.0 to 89.0 %	ISO 13468-1
Additional Information	Nominal Value (English)	Nominal Value (SI)	
ISO Shortname	>PC<	>PC<	



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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	5.0 to 8.0 hr	5.0 to 8.0 hr
Rear Temperature	500 to 572 °F	260 to 300 °C
Middle Temperature	500 to 572 °F	260 to 300 °C
Front Temperature	500 to 572 °F	260 to 300 °C
Mold Temperature	176 to 248 °F	80.0 to 120 °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 24h



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Where to Buy

Supplier

Idemitsu Kosan Co., Ltd.

Tokyo, Japan

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

Distributor

Biesterfeld Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.

Telephone: +49-40-32008-0

Web: <http://www.biesterfeld-plastic.com/>

Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Ireland, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Turkey, United Kingdom

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

Plastribution

Telephone: +44-845-345-4560

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

Availability: United Kingdom

