

TARFLON™ #2200

Polycarbonate

Idemitsu Kosan Co., Ltd.

PROSPECTOR®

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Technical Data

Product Description

Grades

- Standard: A2200
- Superior mold-release: R2200
- Superior mold-release, Ice color: IR2200
- Weather resistance: V2200
- Weather resistance, Superior mold-release: V2200R
- Weather resistance, Superior mold-release, Ice color: IV2200R

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E48268-101331217
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• General Purpose • Weather Resistant
Uses	• General Purpose
UL File Number	• E48268
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.20 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	12.0 cm ³ /10min	ISO 1133
Spiral Flow ^{4, 5}	16.0 cm	Internal Method
Molding Shrinkage		Internal Method
Across Flow : 2.00 mm	0.50 to 0.70 %	
Flow : 2.00 mm	0.50 to 0.70 %	
Water Absorption ⁶ (Equilibrium, 23°C, 50% RH)	0.23 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield)	65.0 MPa	ISO 527-2
Nominal Tensile Strain at Break	95 %	ISO 527-2
Flexural Modulus	2300 MPa	ISO 178
Flexural Stress	90.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	80 kJ/m ²	ISO 179

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		ISO 2039-2
M-Scale	50	
R-Scale	120	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed	125 °C	
CLTE - Flow	6.5E-5 cm/cm/°C	ISO 11359-2
RTI Elec (0.36 mm)	130 °C	UL 746
RTI Imp (0.36 mm)	125 °C	UL 746
RTI Str (0.36 mm)	130 °C	UL 746

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+16 ohms·cm	ASTM D257
Electric Strength	30 kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.85	IEC 60250
Dissipation Factor (1 MHz)	9.2E-3	IEC 60250



Electrical	Nominal Value Unit	Test Method
Arc Resistance	PLC 6	ASTM D495
Comparative Tracking Index (CTI)	PLC 2	UL 746
Flammability	Nominal Value Unit	Test Method
Flame Rating (0.4 to 1.8 mm)	V-2	UL 94
Optical	Nominal Value Unit	Test Method
Transmittance	85.0 to 89.0 %	ISO 13468-1
Additional Information	Nominal Value Unit	
ISO Shortname	>PC<	
Injection	Nominal Value Unit	
Drying Temperature	120 °C	
Drying Time	5.0 to 8.0 hr	
Rear Temperature	260 to 300 °C	
Middle Temperature	260 to 300 °C	
Front Temperature	260 to 300 °C	
Mold Temperature	80 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 Mold Temperature: 80°C, Melt Temperature: 280°C, Injection Pressure: 1.25E+3 bar

⁵ Thickness: 2mm / Width: 10mm

⁶ 24h



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Where to Buy

Supplier

Idemitsu Kosan Co., Ltd.

Tokyo, Japan

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

Distributor

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

