

# TARFLON™ LC1500

Polycarbonate  
Idemitsu Kosan Co., Ltd.

**PROSPECTOR®**

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## Technical Data

### Product Description

Light guiding, Standard

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E238753-102159549</a> • <a href="#">E48268-240459</a>
Search for UL Yellow Card	• <a href="#">Idemitsu Kosan Co., Ltd.</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Uses	• LCD Applications • LEDs
UL File Number	• E48268
Processing Method	• Injection Molding
ISO Shortname	• >PC<

Physical	Nominal Value Unit	Test Method
Density	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	65 cm <sup>3</sup> /10min	ISO 1133
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 <sup>4</sup> (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	80 %	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)	15 kJ/m <sup>2</sup>	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
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	127 °C	
CLTE - Flow	6.5E-5 cm/cm/°C	ISO 11359-2
RTI Elec	80.0 °C	UL 746B
RTI Imp	80.0 °C	UL 746B
RTI Str	80.0 °C	UL 746B
Flammability	Nominal Value Unit	Test Method
Flame Rating (0.42 mm, NC)	V-2	UL 94



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Optical	Nominal Value Unit	Test Method
Refractive Index	1.585	ASTM D542
Light Transmittance	90.0 %	ISO 13468-1

Injection	Nominal Value Unit
Drying Temperature	120 °C
Drying Time	4.0 to 8.0 hr
Rear Temperature	240 to 260 °C
Middle Temperature	240 to 260 °C
Front Temperature	240 to 260 °C
Mold Temperature	80 to 120 °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> 24h



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### Where to Buy

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#### Supplier

##### **Idemitsu Kosan Co., Ltd.**

Tokyo, Tokyo Japan

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

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#### Distributor

##### **Biesterfeld Plastic GmbH**

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

**Telephone:** +49-40-32-00-80

**Web:** <https://www.biesterfeld.com/>

**Availability:** Africa & Middle East, Asia Pacific, Europe, South 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

