

# TARFLON™ LC1501

Polycarbonate  
Idemitsu Kosan Co., Ltd.

Message:  
Light guiding, Good thermal stability

| General Information                                       |                         |                        |                 |
|-----------------------------------------------------------|-------------------------|------------------------|-----------------|
| UL YellowCard                                             | E48268-101901464        |                        |                 |
| Features                                                  | Thermal stability, good |                        |                 |
| Uses                                                      | LCD application         |                        |                 |
|                                                           | LEDs                    |                        |                 |
| UL File Number                                            | E48268                  |                        |                 |
| Processing Method                                         | Injection molding       |                        |                 |
| 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)                | 85.0                    | cm <sup>3</sup> /10min | ISO 1133        |
| Molding Shrinkage                                         |                         |                        | Internal method |
| Transverse flow: 2.00mm                                   | 0.50 - 0.70             | %                      | Internal method |
| Flow: 2.00mm                                              | 0.50 - 0.70             | %                      | Internal method |
| Water Absorption <sup>1</sup> (Equilibrium, 23°C, 50% RH) | 0.23                    | %                      | ISO 62          |
| Hardness                                                  | Nominal Value           | Unit                   | Test Method     |
| Rockwell Hardness                                         |                         |                        | ISO 2039-2      |
| M scale                                                   | 50                      |                        | ISO 2039-2      |
| R scale                                                   | 120                     |                        | ISO 2039-2      |
| 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)                     | 12                      | kJ/m <sup>2</sup>      | ISO 179         |
| Thermal                                                   | Nominal Value           | Unit                   | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed)         | 127                     | °C                     | ISO 75-2/A      |
| CLTE - Flow                                               | 6.5E-5                  | cm/cm/°C               | ISO 11359-2     |
| RTI Elec                                                  | 80.0                    | °C                     | UL 746          |
| RTI Imp                                                   | 80.0                    | °C                     | UL 746          |
| RTI                                                       | 80.0                    | °C                     | UL 746          |

| Flammability               | Nominal Value |      | Test Method |
|----------------------------|---------------|------|-------------|
| Flame Rating (0.40 mm, NC) | V-2           |      | UL 94       |
| Optical                    | Nominal Value | Unit | Test Method |
| Refractive Index           | 1.585         |      | ASTM D542   |
| Transmittance              | 90.0          | %    | ISO 13468-1 |
| Additional Information     | Nominal Value |      |             |
| ISO Shortname              | >PC           |      |             |
| Injection                  | Nominal Value | Unit |             |
| Drying Temperature         | 120           | °C   |             |
| Drying Time                | 5.0 - 8.0     | hr   |             |
| Rear Temperature           | 280 - 320     | °C   |             |
| Middle Temperature         | 280 - 320     | °C   |             |
| Front Temperature          | 280 - 320     | °C   |             |
| Mold Temperature           | 80 - 120      | °C   |             |
| NOTE                       |               |      |             |
| 1.                         | 24h           |      |             |

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