

# Torelina™ A680M PPS

## TECHNICAL DATA

### Product Description

Good mirror surface

|                          |                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Uses</b>              | <ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Automotive Lighting</li> <li>Reflectors</li> </ul> |
| <b>Processing Method</b> | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>                                                        |
| <b>ISO Designation</b>   | <ul style="list-style-type: none"> <li>&gt;PPS-MD60&lt;</li> </ul>                                                         |
| <b>Type</b>              | <ul style="list-style-type: none"> <li>PPS/Special purpose</li> </ul>                                                      |

### ASTM & ISO Properties

| Physical                                    | Nominal Value | Unit                    | Test Method     |
|---------------------------------------------|---------------|-------------------------|-----------------|
| Density (23°C)                              | 1.90          | g/cm <sup>3</sup>       | ISO 1183        |
| Molding Shrinkage <sup>1</sup>              |               |                         | Internal Method |
| Across Flow : 3.00 mm                       | 0.75          | %                       |                 |
| Flow : 3.00 mm                              | 0.53          | %                       |                 |
| Water Absorption <sup>2</sup> (24 hr, 23°C) | 0.020         | %                       | ISO 62          |
| Mechanical                                  | Nominal Value | Unit                    | Test Method     |
| Tensile Strength (23°C)                     | 90            | MPa                     | ISO 527-2       |
| Tensile Strain (Break, 23°C)                | 0.80          | %                       | ISO 527-2       |
| Flexural Modulus (23°C)                     | 12500         | MPa                     | ISO 178         |
| Flexural Stress (23°C)                      | 125           | MPa                     | ISO 178         |
| Impact                                      | Nominal Value | Unit                    | Test Method     |
| Charpy Unnotched Impact Strength (23°C)     | 15.0          | kJ/m <sup>2</sup>       | ISO 179         |
| Thermal                                     | Nominal Value | Unit                    | Test Method     |
| Deflection Temperature Under Load           |               |                         | ISO 75-2/A      |
| 1.8 MPa, Unannealed                         | 160           | °C                      |                 |
| Melting Temperature                         | 278           | °C                      | ISO 11357-3     |
| CLTE                                        |               |                         | ISO 11359-2     |
| Flow                                        | 2.9           | cm <sup>-5</sup> /cm/°C |                 |
| Transverse                                  | 3.1           | cm <sup>-5</sup> /cm/°C |                 |
| Electrical                                  | Nominal Value | Unit                    | Test Method     |
| Volume Resistivity                          | 1.0E+14       | ohms·m                  | IEC 60093       |
| Electric Strength                           | 23            | kV/mm                   | IEC 60243-1     |
| Flammability                                | Nominal Value | Unit                    | Test Method     |
| Flame Rating (1.6 mm, NC)                   | V-0           |                         | UL 94           |

### Notes

<sup>1</sup> 80x80x3mm

<sup>2</sup> in water

Toray Industries, Inc.

