

# Torelina™ A604 WR PPS

## TECHNICAL DATA

### Product Description

GF40%, Drinking water approved

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Uses</b>              | <ul style="list-style-type: none"> <li>Fittings</li> <li>Plumbing Parts</li> <li>Valves/Valve Parts</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-GF40&lt;</li> </ul>                                             |
| <b>Type</b>              | <ul style="list-style-type: none"> <li>PPS/GF reinforced</li> </ul>                                            |

### ASTM & ISO Properties

| Physical                                                 | Nominal Value | Unit              | Test Method     |
|----------------------------------------------------------|---------------|-------------------|-----------------|
| Density (23°C)                                           | 1.66          | g/cm <sup>3</sup> | ISO 1183        |
| Spiral Flow <sup>1</sup>                                 | 100           | mm                | Internal Method |
| Molding Shrinkage <sup>2</sup>                           |               |                   | Internal Method |
| Across Flow : 3.00 mm                                    | 0.80          | %                 |                 |
| Flow : 3.00 mm                                           | 0.20          | %                 |                 |
| Water Absorption <sup>3</sup> (24 hr, 23°C)              | 0.020         | %                 | ISO 62          |
| Mechanical                                               | Nominal Value | Unit              | Test Method     |
| Tensile Strength (23°C)                                  | 188           | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                             | 1.8           | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                                  | 14500         | MPa               | ISO 178         |
| Flexural Stress (23°C)                                   | 280           | MPa               | ISO 178         |
| Impact                                                   | Nominal Value | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)                    | 9.0           | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C)                  | 50.0          | kJ/m <sup>2</sup> | ISO 179         |
| Hardness                                                 | Nominal Value | Unit              | Test Method     |
| Rockwell Hardness (R-Scale)                              | 122           |                   | ISO 2039-2      |
| Thermal                                                  | Nominal Value | Unit              | Test Method     |
| Deflection Temperature Under Load<br>1.8 MPa, Unannealed | > 260         | °C                | ISO 75-2/A      |
| Melting Temperature                                      | 278           | °C                | ISO 11357-3     |
| Electrical                                               | Nominal Value | Unit              | Test Method     |
| Volume Resistivity                                       | 1.0E+14       | ohms·m            | IEC 60093       |
| Flammability                                             | Nominal Value | Unit              | Test Method     |
| Flame Rating (0.200 mm)                                  | V-0           |                   | UL 94           |

### Notes

<sup>1</sup> Melt Temperature: 320°C, Injection Pressure: 980 bar, 1.00 mm

<sup>2</sup> 80x80x3mm

<sup>3</sup> in water

Toray Industries, Inc.

