

# Torelina™ AR10M

## PPS

### TECHNICAL DATA

#### Product Description

High filler, UL746(f1)

#### Uses

- Electrical Housing
- Electrical/Electronic Applications
- Insulation
- Office Automation Equipment

#### Processing Method

- Injection Molding

#### ISO Designation

- >PPS-(GF+MD)65<

#### Type

- PPS/GF+Mineral filler reinforced

### ASTM & ISO Properties

| Physical                                    | Nominal Value | Unit                   | Test Method     |
|---------------------------------------------|---------------|------------------------|-----------------|
| Density (23°C)                              | 1.97          | g/cm <sup>3</sup>      | ISO 1183        |
| Spiral Flow <sup>1</sup>                    | 110           | mm                     | Internal Method |
| Molding Shrinkage <sup>2</sup>              |               |                        | Internal Method |
| Across Flow : 3.00 mm                       | 0.60          | %                      |                 |
| Flow : 3.00 mm                              | 0.20          | %                      |                 |
| Water Absorption <sup>3</sup> (24 hr, 23°C) | 0.020         | %                      | ISO 62          |
| Outdoor Suitability                         | f1            |                        | UL 746C         |
| Mechanical                                  | Nominal Value | Unit                   | Test Method     |
| Tensile Strength (23°C)                     | 140           | MPa                    | ISO 527-2       |
| Tensile Strain (Break, 23°C)                | 0.90          | %                      | ISO 527-2       |
| Flexural Modulus (23°C)                     | 20000         | MPa                    | ISO 178         |
| Flexural Stress (23°C)                      | 225           | MPa                    | ISO 178         |
| Shear Strength (23°C)                       | 60            | MPa                    | JIS K7214       |
| Taber Abrasion Resistance (1000 Cycles)     | 70            | mg                     | ISO 9352        |
| Coefficient of Friction - vs. Metal         | 0.30          |                        |                 |
| Impact                                      | Nominal Value | Unit                   | Test Method     |
| Charpy Notched Impact Strength (23°C)       | 8.0           | kJ/m <sup>2</sup>      | ISO 179         |
| Charpy Unnotched Impact Strength (23°C)     | 20.0          | kJ/m <sup>2</sup>      | ISO 179         |
| Hardness                                    | Nominal Value | Unit                   | Test Method     |
| Rockwell Hardness (R-Scale)                 | 123           |                        | ISO 2039-2      |
| Thermal                                     | Nominal Value | Unit                   | Test Method     |
| Deflection Temperature Under Load           |               |                        | ISO 75-2/A      |
| 1.8 MPa, Unannealed                         | > 260         | °C                     |                 |
| Melting Temperature                         | 278           | °C                     | ISO 11357-3     |
| CLTE                                        |               |                        | ISO 11359-2     |
| Flow                                        | 1.8           | cm <sup>3</sup> /cm/°C |                 |
| Transverse                                  | 2.6           | cm <sup>3</sup> /cm/°C |                 |
| Electrical                                  | Nominal Value | Unit                   | Test Method     |
| Volume Resistivity                          | 1.0E+14       | ohms·m                 | IEC 60093       |
| Electric Strength                           | 22            | kV/mm                  | IEC 60243-1     |
| Dielectric Constant (23°C, 1 MHz)           | 4.9           |                        | IEC 60250       |
| Dissipation Factor (23°C, 1 MHz)            | 0.002         |                        | IEC 60250       |
| Flammability                                | Nominal Value | Unit                   | Test Method     |
| Flame Rating (0.71 mm)                      | V-0           |                        | UL 94           |



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