

# Torelina® A410MX07

Polyphenylene Sulfide

Toray Resin Company

Message:

Torelina® A410MX07 is a Polyphenylene Sulfide (PPS) product filled with 70% glass\mineral. It is available in Asia Pacific, Europe, or North America. Characteristics include:  
Flame Rated  
Chemical Resistant

| General Information                               |                                    |                   |                 |
|---------------------------------------------------|------------------------------------|-------------------|-----------------|
| Filler / Reinforcement                            | Glass\Mineral,70% Filler by Weight |                   |                 |
| Features                                          | Fuel Resistant                     |                   |                 |
| Appearance                                        | Black                              |                   |                 |
| Part Marking Code                                 | >PPS-GF+MD70<                      |                   |                 |
| Physical                                          | Nominal Value                      | Unit              | Test Method     |
| Density (23°C)                                    | 2.06                               | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage                                 |                                    |                   | Internal Method |
| Across Flow : 3.00 mm <sup>1</sup>                | 0.45                               | %                 |                 |
| Flow : 3.00 mm <sup>2</sup>                       | 0.25                               | %                 |                 |
| Water Absorption (23°C, 24 hr)                    | 0.020                              | %                 | ISO 62          |
| Hardness                                          | Nominal Value                      | Unit              | Test Method     |
| Rockwell Hardness (R-Scale)                       | 123                                |                   | ISO 2039-2      |
| Mechanical                                        | Nominal Value                      | Unit              | Test Method     |
| Tensile Stress (23°C)                             | 135                                | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                      | 0.70                               | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                           | 25500                              | MPa               | ISO 178         |
| Flexural Stress (23°C)                            | 235                                | 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)           | 17                                 | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                           | Nominal Value                      | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 260                                | °C                | ISO 75-2/A      |
| Melting Temperature                               | 278                                | °C                | ISO 11357-3     |
| CLTE                                              |                                    |                   | ISO 11359-2     |
| Flow                                              | 1.9E-5                             | cm/cm/°C          |                 |
| Transverse                                        | 2.0E-5                             | cm/cm/°C          |                 |
| Electrical                                        | Nominal Value                      | Unit              | Test Method     |
| Volume Resistivity                                | 1.0E+16                            | ohms · cm         | IEC 60093       |
| Electric Strength                                 | 20                                 | kV/mm             | IEC 60243-1     |
| Flammability                                      | Nominal Value                      | Unit              | Test Method     |

|                                               |               |      |                 |
|-----------------------------------------------|---------------|------|-----------------|
| Flame Rating                                  | V-0           |      | UL 94           |
| Additional Information                        | Nominal Value | Unit | Test Method     |
| Bar Flow Length <sup>3</sup> (320°C, 1.00 mm) | 7.50          | cm   | Internal Method |
| NOTE                                          |               |      |                 |
| 1.                                            | 80x80x3       |      |                 |
| 2.                                            | 80x80x3mm     |      |                 |
| 3.                                            | 98 MPa        |      |                 |

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