

RTP 1800 A UV

Polycarbonate + Acrylic (PMMA)

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

| General Information | | | |
|-----------------------------------|----------------------|-------------------|-------------|
| Additive | UV stabilizer | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Unspecified Color | | |
| | Black | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.15 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | 0.40 - 0.80 | % | ASTM D955 |
| Water Absorption (Saturation) | 0.26 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 45 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2410 | MPa | ASTM D638 |
| Tensile Strength | 61.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 60 | % | ASTM D638 |
| Flexural Modulus | 2070 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -40°C, 3.18 mm | 210 | J/m | ASTM D256 |
| 23°C, 3.18 mm | 1600 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 123 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 101 | °C | ASTM D648 |
| CLTE - Flow | 9.4E-5 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | | Test Method |
| Dielectric Constant (1 MHz) | 2.72 | | ASTM D150 |
| Dissipation Factor (1 MHz) | 9.0E-3 | | ASTM D150 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.59 mm) | HB | | UL 94 |
| Additional Information | | | |

The value listed as UL 94, was tested in accordance with RTP Company Testing.

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 218 - 260 | °C |
| Middle Temperature | 218 - 260 | °C |
| Front Temperature | 218 - 260 | °C |
| Injection Pressure | 55.2 - 68.9 | MPa |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

