

RTP 1805A

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 | | | |
|---|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 30% filler by weight | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.39 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.10 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.14 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 9650 | MPa | ASTM D638 |
| Tensile Strength | 110 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.5 | % | ASTM D638 |
| Flexural Modulus | 8070 | MPa | ASTM D790 |
| Flexural Strength | 155 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 85 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 530 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 132 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+16 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | | | |
| The value listed as UL 94, was tested in accordance with RTP Company Testing.Molding Shrinkage, ASTM D955, .25in thick: .002in/in | | | |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 232 - 271 | °C | |
| Middle Temperature | 232 - 271 | °C | |

| | | |
|--------------------|------------|-----|
| Front Temperature | 232 - 271 | °C |
| Mold Temperature | 65.6 - 104 | °C |
| Injection Pressure | 68.9 - 138 | MPa |

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Recommended distributors for this material

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