# RTP 2500 UV

Polycarbonate + ABS

**RTP Company**

## Technical Data

### Product Description

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.

-Preliminary Product Data per RTP Co.-

### General

| | | |
|---|---|---|
| Additive | • UV Stabilizer | |
| Features | • UV Resistant | |
| RoHS Compliance | • Contact Manufacturer | |
| Appearance | • Black | • Natural Color |
| Forms | • Pellets | |
| Processing Method | • Injection Molding | |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.14 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.60 | % | ASTM D955 |
| Water Absorption (24 hr, 23°C) | 0.15 | % | ASTM D570 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 2280 | MPa | ASTM D638 |
| Tensile Strength | 53.8 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 100 | % | ASTM D638 |
| Flexural Modulus | 2340 | MPa | ASTM D790 |
| Flexural Strength | 82.7 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (3.18 mm) | 640 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 1900 | J/m | ASTM D4812 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 116 | | ASTM D785 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 121 | °C | |
| 1.8 MPa, Unannealed | 110 | °C | |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | 1.0E+16 | ohms·cm | ASTM D257 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating (1.6 mm, RTP Tested) | HB | | UL 94 |

### Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 7mil/in.

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 99 | °C |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.020 | % |
| Suggested Max Regrind | 20 | % |
| Rear Temperature | 243 to 282 | °C |

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| Injection | Nominal Value | Unit |
|---|---|---|
| Middle Temperature | 243 to 282 | °C |
| Front Temperature | 243 to 282 | °C |
| Mold Temperature | 82 to 96 | °C |
| Injection Pressure | 68.9 to 103 | MPa |
| Back Pressure | 0.345 | MPa |
| Clamp Tonnage | 6.9 to 11 | kN/cm² |

## Notes

[1] Typical properties: these are not to be construed as specifications.