

RTP 2502

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.

General

Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
RoHS Compliance	• Contact Manufacturer
Appearance	• Black • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.26	1.26 g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
0.125 in (3.18 mm), Injection Molded	2.0E-3 in/in	0.20 %	
0.250 in (6.35 mm), Injection Molded	4.0E-3 in/in	0.40 %	
Water Absorption (73°F (23°C), 24 hr)	0.10 %	0.10 %	ASTM D570

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Injection Molded)	699000 psi	4820 MPa	ASTM D638
Tensile Strength	12000 psi	83.0 MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	3.5 %	3.5 %	ASTM D638
Flexural Modulus (Injection Molded)	650000 psi	4480 MPa	ASTM D790
Flexural Strength (Injection Molded)	19000 psi	131 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
0.125 in (3.18 mm), Injection Molded	2.0 ft·lb/in	110 J/m	
Unnotched Izod Impact (0.125 in (3.18 mm))	10 ft·lb/in	530 J/m	ASTM D4812

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Injection Molded	280 °F	138 °C	
264 psi (1.8 MPa), Unannealed, Injection Molded	270 °F	132 °C	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	1.0E+16 ohm·cm	1.0E+16 ohm·cm	ASTM D257

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm))	HB	HB	UL 94

Additional Information

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

Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	450 to 511 °F	232 to 266 °C
Middle Temperature	450 to 511 °F	232 to 266 °C

RTP 2502

Polycarbonate + ABS

RTP Company

Injection	Nominal Value (English)	Nominal Value (SI)
Front Temperature	450 to 511 °F	232 to 266 °C
Mold Temperature	126 to 199 °F	52.0 to 93.0 °C
Injection Pressure	10000 to 14900 psi	69.0 to 103 MPa