



**Product Data Sheet &
General Processing Conditions**

**RTP 152 UV
Polypropylene (PP)
Flame Retardant
UV Stabilized**

The RTP 152 family of compounds are flame retarded, unreinforced polypropylene materials. They offer excellent moldability, non-corrosive characteristics and the living-hinge effect.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.93	0.93	D 792
Melt Flow Rate @ 230 °C, / 2.16 kg	3.00 - 5.00 g/10 min	3.00 - 5.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0200 in/in	1.50 - 2.00 %	D 955
Water Absorption, 24 hrs @ 23°C	0.010 %	0.010 %	D 570

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	23.0 ft-lbs/in	1228 J/m	D 4812
Tensile Strength	4400 psi	30 MPa	D 638
Tensile Elongation Break	> 100.0 %	> 100.0 %	D 638
Tensile Modulus	0.22 x 10 ⁶ psi	1517 MPa	D 638
Flexural Strength	5400 psi	37 MPa	D 790
Flexural Modulus	0.19 x 10 ⁶ psi	1310 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	500 VPM	19.7 kV/mm	D 149
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	130 °F	54 °C	D 648
Ignition Resistance* Flammability**	V-2 @ 1/32 in	V-2 @ 0.8 mm	D 3801

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	375 - 450 °F	191 - 232 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C