



**Product Data Sheet &
General Processing Conditions**

**RTP 152
Polypropylene (PP)
Flame Retardant
UL94 V-2**



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
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	> 10.0 %	> 10.0 %	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	700 VPM	27.6 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
@ 66 psi (455 kPa)	220 °F	104 °C	D 648
Ignition Resistance*			
Flammability	V-2 @ 1/32 in	V-2 @ 0.8 mm	UL94
Glow Wire Ignitability Temperature	750 °C @ 1/8 in	750 °C @ 3.0 mm	IEC 60695-2-13
Glow Wire Flammability Index	960 °C @ 1/8 in	960 °C @ 3.0 mm	IEC 60695-2-12

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.

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