




**Product Data Sheet &
General Processing Conditions**

**RTP 154
Polypropylene (PP)
Flame Retardant
UL94 V-0**



The RTP 154 family of compounds are flame retarded, unreinforced polypropylene materials. They offer improved physical properties, low specific gravity and excellent moldability vs. traditional V-0 polypropylenes.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.03	1.03	D 792
Melt Flow Rate @ 230 °C, / 2.16 kg	6.00 g/10 min	6.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0130 - 0.0180 in/in	1.30 - 1.80 %	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	0.5 ft-lbs/in	27 J/m	D 256
unnotched 1/8 in (3.2 mm) section	24.0 ft-lbs/in	1281 J/m	D 4812
Tensile Strength	4300 psi	30 MPa	D 638
Tensile Elongation Break	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.21 x 10 ⁶ psi	1448 MPa	D 638
Flexural Strength	5600 psi	39 MPa	D 790
Flexural Modulus	0.21 x 10 ⁶ psi	1448 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	775 VPM	30.5 kV/mm	D 149
Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	125 °F	52 °C	D 648
@ 66 psi (455 kPa)	250 °F	121 °C	D 648
VICAT Softening Temperature 120 Â°C/h, 50 N	201 °F	94 °C	D 1525
Ignition Resistance*			
Flammability	VTM-0 @ 0.009 in	VTM-0 @ 0.2 mm	UL94
Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
Limiting Oxygen Index	29.0 %	29.00 %	D 2863

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	338 - 450 °F	170 - 232 °C

Mold Temperature
Drying

90 - 150 °F
2 hrs @ 175 °F

32 - 66 °C
2 hrs @ 79 °C
