



**Product Data Sheet &
General Processing Conditions**

**RTP 154 HF HI
Polypropylene (PP)
Copolymer
High Flow
Flame Retardant**

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	35.00 g/10 min	35.00 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	11.0 ft-lbs/in	587 J/m	D 256
unnotched 1/8 in (3.2 mm) section	26.0 ft-lbs/in	1388 J/m	D 4812
Tensile Strength	2600 psi	18 MPa	D 638
Tensile Elongation Break	> 100.0 %	> 100.0 %	D 638
Tensile Modulus	0.17 x 10 ⁶ psi	1172 MPa	D 638
Flexural Strength	3300 psi	23 MPa	D 790
Flexural Modulus	0.13 x 10 ⁶ psi	896 MPa	D 790

ELECTRICAL

Volume Resistivity	> 1E15 ohm.cm	> 1E15 ohm.cm	D 257
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THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	105 °F	41 °C	D 648
Ignition Resistance*			
Flammability**	VTM-0 @ 0.009 in	VTM-0 @ 0.2 mm	D 4804
Flammability**	V-0 @ 1/32 in	V-0 @ 0.8 mm	D 3801
Limiting Oxygen Index**	27.0 %	27.00 %	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.

** 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