



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

PROCESSING NOTES

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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