



Product Data Sheet & General Processing Conditions

RTP 199 X 71878 FR
Polypropylene (PP)
Flame Retardant
Halogen Free
UL94 V-0


PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.49	1.49	D 792
Melt Flow Rate @ 210 °C, / 2.16 kg	1.00 - 3.00 g/10 min	1.00 - 3.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0045 - 0.0065 in/in	0.45 - 0.65 %	D 955
Water Absorption, 24 hrs @ 23°C	0.030 %	0.030 %	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	1.5 ft-lbs/in	80 J/m	D 4812
Tensile Strength	3200 psi	22 MPa	D 638
Tensile Elongation	1.0 %	1.0 %	D 638
Tensile Modulus	1.30 x 10 ⁶ psi	8964 MPa	D 638
Flexural Strength	6400 psi	44 MPa	D 790
Flexural Modulus	0.95 x 10 ⁶ psi	6550 MPa	D 790
Hardness Rockwell, R	104	104	D 785

ELECTRICAL

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

Deflection Temperature @ 264 psi (1820 kPa)	225 °F	107 °C	D 648
@ 66 psi (455 kPa)	275 °F	135 °C	D 648
Ignition Resistance* Flammability	V-0 @ 0.090 in	V-0 @ 2.2 mm	UL94

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

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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