



**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**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
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 <sup>6</sup> psi	8964 MPa	D 638
Flexural Strength	6400 psi	44 MPa	D 790
Flexural Modulus	0.95 x 10 <sup>6</sup> 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**

	<b>English</b>	<b>SI Metric</b>
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