




**Product Data Sheet &  
General Processing Conditions**

**RTP 300 FR A  
Polycarbonate (PC)  
Unreinforced  
Flame Retardant  
Non-PBBO/E  
UL94 V-0**



The RTP 300 FR A family of materials offer dimensional stability, rigidity, heat resistance, ignition resistance and excellent impact strength.

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.21	1.21	D 792
Melt Flow Rate @ 300 °C, / 1.2 kg	10.00 g/10 min	10.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 - 0.0090 in/in	0.60 - 0.90 %	D 955
Water Absorption, 24 hrs @ 23°C	0.150 %	0.150 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	12.0 ft-lbs/in	641 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	8400 psi	58 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.31 x 10 <sup>6</sup> psi	2137 MPa	D 638
Flexural Strength	12500 psi	86 MPa	D 790
Flexural Modulus	0.33 x 10 <sup>6</sup> psi	2275 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257
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**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	260 °F	127 °C	D 648
@ 66 psi (455 kPa)	270 °F	132 °C	D 648
Ignition Resistance*			
Flammability	V-2 @ 1/32 in	V-2 @ 0.8 mm	UL94
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Glow Wire Flammability Index	960 °C @ 1/16 in	960 °C @ 1.5 mm	IEC 60695-2-12

**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	550 - 600 °F	288 - 316 °C
Mold Temperature	180 - 250 °F	82 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C

Moisture Content  
Dew Point

0.02 %  
-20 °F

0.02 %  
-29 °C

**PROCESSING NOTES**

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Desiccant Type Dryer Required.