



**Product Data Sheet &  
General Processing Conditions**

**RTP 305 TFE 15 SE A  
Polycarbonate (PC)  
Glass Fiber  
PTFE Lubricated  
Self Extinguishing  
Bromine/Chlorine Free  
UL94 HB**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	30 %	30 %	
Specific Gravity	1.54	1.54	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0015 - 0.0025 in/in	0.15 - 0.25 %	D 955
Water Absorption, 24 hrs @ 23°C	0.080 %	0.080 %	D 570
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	3.0 ft-lbs/in	160 J/m	D 256
unnotched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 4812
Tensile Strength	16000 psi	110 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	1.35 x 10 <sup>6</sup> psi	9308 MPa	D 638
Flexural Strength	27000 psi	186 MPa	D 790
Flexural Modulus	1.25 x 10 <sup>6</sup> psi	8619 MPa	D 790
Hardness Rockwell, R	119	119	D 785
<b>ELECTRICAL</b>			
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	295 °F	146 °C	D 648
@ 66 psi (455 kPa)	300 °F	149 °C	D 648
Ignition Resistance*			
Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94
Flammability	V-1 @ 1/8 in	V-1 @ 3.0 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	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	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C