



**Product Data Sheet &
General Processing Conditions**

**RTP 301 TFE 15 FR L
Polycarbonate (PC)
Glass Fiber
PTFE Lubricated
Flame Retardant
Non-PBBO/E
UL94 V-0**



The RTP 301 TFE FR L series of compounds incorporate various percentages of PTFE into a glass fiber reinforced polycarbonate base which also includes external lubricants for enhanced processing. These UL94 V-0 certified materials exhibit excellent dimensional stability, low wear characteristics with enhanced strength and heat resistance.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.38	1.38	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
Water Absorption, 24 hrs @ 23°C	0.100 %	0.100 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	2.2 ft-lbs/in	117 J/m	D 256
unnotched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 J/m	D 4812
Tensile Strength	9000 psi	62 MPa	D 638
Tensile Elongation	5.0 - 8.0 %	5.0 - 8.0 %	D 638
Tensile Modulus	0.65 x 10 ⁶ psi	4482 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	0.55 x 10 ⁶ psi	3792 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)	280 °F	138 °C	D 648
@ 66 psi (455 kPa)	290 °F	143 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 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	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

Desiccant Type Dryer Required.