



**Product Data Sheet &
General Processing Conditions**

**RTP 300 LF FR A UV
Polycarbonate (PC)
Low Flow
Unreinforced
Flame Retardant
UV Stabilized
UL94 V-0**



The RTP 300 FR A family of materials offer dimensional stability, rigidity, heat resistance, ignition resistance and excellent impact strength. RTP 300 LF FR A UV is a UV-stabilized grade designed for extrusion processing.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.21	1.21	D 792
Melt Flow Rate	4.00 - 10.00 g/10 min	4.00 - 10.00 g/10 min	D 1238
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0070 - 0.0090 in/in	0.70 - 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	13.0 ft-lbs/in	694 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	8500 psi	59 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.35 x 10 ⁶ psi	2413 MPa	D 638
Flexural Strength	13000 psi	90 MPa	D 790
Flexural Modulus	0.35 x 10 ⁶ psi	2413 MPa	D 790

ELECTRICAL

Dielectric Constant, 1 MHz, Dry	3.0	3.0	D 150
Dissipation Factor, 1 MHz, Dry	0.0100	0.0100	D 150
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257

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

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 EXTRUSION PROCESSING

	English	SI Metric
Melt Temperature	550 - 600 °F	288 - 316 °C
Die Temperature	180 - 250 °F	82 - 121 °C

Drying	0 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.