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Ponciplastics.com



Product Data Sheet & General Processing Conditions

RTP 303 FR UV
Polycarbonate (PC)
Glass Fiber
Flame Retardant
Non-PBBO/E
UV Stabilized



The RTP series of flame retardant, glass fiber reinforced polycarbonate materials offer dimensional stability with improved heat distortion and ignition resistance performance over the base resin. RTP 303 FR UV includes additional stabilization against UV degradation.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.34	1.34	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	0.090 %	0.090 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	2.5 ft-lbs/in	133 J/m	D 256
unnotched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 4812
Tensile Strength	15000 psi	103 MPa	D 638
Tensile Elongation	3.0 - 4.0 %	3.0 - 4.0 %	D 638
Tensile Modulus	0.90 x 10 ⁶ psi	6206 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	0.80 x 10 ⁶ psi	5516 MPa	D 790
Hardness			
Rockwell, R	118	118	D 785

ELECTRICAL

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

Deflection Temperature			
@ 264 psi (1820 kPa)	290 °F	143 °C	D 648
@ 66 psi (455 kPa)	295 °F	146 °C	D 648
Ignition Resistance*			
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Flammability	5VB @ 1/8 in	5VB @ 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

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	510 - 600 °F	266 - 316 °C
Mold Temperature	180 - 250 °F	82 - 121 °C

Drying
Moisture Content
Dew Point

4 hrs @ 250 °F
0.02 %
-20 °F

4 hrs @ 121 °C
0.02 %
-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.