

## Product Data Sheet & General Processing Conditions

RTP 307 SE
Polycarbonate (PC)
Glass Fiber
Self Extinguishing
Halogen Free
UL94 V-2

The RTP 300 SE series represent a range of glass fiber reinforced, self-extinguishing polycarbonate materials which offer outstanding dimensional stability with improved rigidity, heat resistance and strengths over the base resin.

## PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

English	SI Motric	ASTN TES
English	31 Wetric	IES
40 %	40 %	
1.52	1.52	D 79
0.0005 - 0.0020 in/in	0.05 - 0.20 %	D 95
0.070 %	0.070 %	D 57
4.0 ft-lbs/in	214 J/m	D 25
20.0 ft-lbs/in	1068 J/m	D 481
21000 psi	145 MPa	D 63
2.0 - 3.0 %	2.0 - 3.0 %	D 63
1.60 x 10^6 psi	11032 MPa	D 63
32000 psi	221 MPa	D 79
1.50 x 10^6 psi	10342 MPa	D 79
119	119	D 78
455 VPM	17.9 kV/mm	D 14
3.6	3.6	D 15
0.0070	0.0070	D 15
120 s	120 s	D 49
> 1E16 ohm.cm	> 1E16 ohm.cm	D 25
300 °F	149 °C	D 64
300 °F	149 °C	D 64
V-2 @ 1/16 in	V-2 @ 1.5 mm	UL9
V-1 @ 1/8 in	V-1 @ 3.0 mm	UL9
	1.52  0.0005 - 0.0020 in/in 0.070 %  4.0 ft-lbs/in 20.0 ft-lbs/in 21000 psi 2.0 - 3.0 % 1.60 x 10^6 psi 32000 psi 1.50 x 10^6 psi 119  455 VPM 3.6 0.0070 120 s > 1E16 ohm.cm	40 % 1.52 1.52  0.0005 - 0.0020 in/in 0.070 % 0.070 %  4.0 ft-lbs/in 214 J/m 20.0 ft-lbs/in 1068 J/m 21000 psi 145 MPa 2.0 - 3.0 % 2.0 - 3.0 % 1.60 x 10^6 psi 11032 MPa 32000 psi 221 MPa 1.50 x 10^6 psi 10342 MPa 1.50 x 10^6 psi 10342 MPa 119 119  455 VPM 17.9 kV/mm 3.6 3.6 0.0070 0.0070 120 s 120 s 120 s > 1E16 ohm.cm > 1E16 ohm.cm

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.

## GENERAL PROCESSING FOR INJECTION MOLDING

**PROPERTY NOTES** 

English SI Metric

<sup>\*</sup> This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

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

## **PROCESSING NOTES**

Desiccant Type Dryer Required.

15 Dec 2004 SAC

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein.

Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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RTP COMPANY • 580 EAST FRONT STREET • WINONA, MN 55987 • 507-454-6900