

RTP 301 EM

Polycarbonate
RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.
RTP 301 EM is a 10% glass fiber reinforced polycarbonate formulated for high impact strength and easy molding. It has good dimensional stability and improved heat resistance and strength over the base resin. Self-extinguishing FR characteristics are maintained.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Good dimensional stability		
	Good formability		
	Self-extinguishing		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3790	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Compressive Strength	96.5	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	210	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	2100	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	146	°C	ASTM D648

1.8 MPa, not annealed	143	°C	ASTM D648
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.22	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	0.010		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	V-1		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 5mil/in.Flammability, in/min., ASTM D-635: SE			
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Max Regrind	20	%	
Rear Temperature	288 - 343	°C	
Middle Temperature	288 - 343	°C	
Front Temperature	288 - 343	°C	
Mold Temperature	65.6 - 121	°C	
Injection Pressure	68.9 - 103	MPa	

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Recommended distributors for this material

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