

RTP 305 Z

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 300 Z Series are glass fiber reinforced polycarbonate. They contain FDA compliant glass fiber, in that the components of the sizing on the glass fiber are on the FDA GRAS list.
-Preliminary Product Data per RTP Co.-
The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Agency Ratings	FDA not rated		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.080	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	103	MPa	ASTM D638
--	128	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength			ASTM D790
--	193	MPa	ASTM D790
Yield	172	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	150	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	910	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	149	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.32	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-1		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in.			
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	
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 90	rpm	
Clamp Tonnage	6.9 - 11	kN/cm ²	

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Recommended distributors for this material

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