

RTP 385 EM L

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.
This material has the ability to be fabricated to close dimensional tolerances.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Rigid, good		
	Good formability		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	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	17200	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Compressive Strength	131	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	370	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	1.6E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.65	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	25	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in. Tensile Elongation, ASTM D-638: 1-2% Flammability, ASTM D-635: B in/min.

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	20	%
Rear Temperature	260 - 316	°C
Middle Temperature	260 - 316	°C
Front Temperature	260 - 316	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	103 - 138	MPa

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Recommended distributors for this material

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