

RTP 2285 A

Polyether Ketone

RTP Company

Message:

Carbon Fiber

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050	%	ASTM D955
Moisture Content	0.10	%	
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26200	MPa	ASTM D638
Tensile Strength	262	MPa	ASTM D638
Tensile Elongation (Yield)	1.6	%	ASTM D638
Flexural Modulus	24800	MPa	ASTM D790
Flexural Strength	379	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	750	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	> 316	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+5	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	179	°C	
Drying Time	2.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	385 - 413	°C	
Mold Temperature	179 - 218	°C	
Injection Pressure	68.9 - 138	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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Recommended distributors for this material

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