

RTP 4285

Thermoplastic Polyimide

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	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.020 - 0.10	%	ASTM D955
Moisture Content	0.010	%	
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20000	MPa	ASTM D638
Tensile Strength	221	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	19300	MPa	ASTM D790
Flexural Strength	331	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	85	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)	> 260	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow	5.4E-6	cm/cm/°C	ASTM E831
Lateral	4.7E-5	cm/cm/°C	ASTM E831
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	204	°C	
Drying Time	6.0	hr	
Dew Point	-40.0	°C	
Processing (Melt) Temp	399 - 416	°C	
Mold Temperature	177 - 232	°C	
Injection Pressure	138 - 193	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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Recommended distributors for this material

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