

# RTP ESD 2285 HF

Polyetheretherketone

RTP Company

Message:

Carbon Fiber - Electrically Conductive - High Flow

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Features	Conductivity High liquidity		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050	%	ASTM D955
Moisture Content	0.10	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26200	MPa	ASTM D638
Tensile Strength	262	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	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
Surface Resistivity			
--	< 1.0E+5	ohms	ASTM D257
--	< 1.0E+4	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+3	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	Test Method
Drying Temperature	149	°C	

Drying Time	3.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	349 - 399	°C
Mold Temperature	163 - 218	°C
Injection Pressure	82.7 - 124	MPa

#### Injection instructions

Desiccant Type Dryer Required.

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#### Recommended distributors for this material

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