

# RTP 283A HEC

Polyamide 6

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.

General Information			
Filler / Reinforcement	Nickel plated carbon fiber, 20% filler by weight		
Features	Electromagnetic shielding (EMI)		
	Electrostatic discharge protection		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm, Injection Molded)	0.20 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	10300	MPa	ASTM D638
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	1.5	%	ASTM D638
Flexural Modulus (Injection Molded)	8270	MPa	ASTM D790
Flexural Strength (Injection Molded)	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	193	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	ASTM D257
Volume Resistivity	0.10	ohms · cm	ASTM D257

#### Additional Information

Static Decay MIL-PRF-81705D, FTMS-4046.1: <2 sec

Injection	Nominal Value	Unit
Rear Temperature	221 - 271	°C
Middle Temperature	221 - 271	°C
Front Temperature	221 - 271	°C
Mold Temperature	54.0 - 93.0	°C
Injection Pressure	69.0 - 103	MPa

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

