

RTP 281H

Polyamide 66

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.
RTP 280H Series are carbon fiber reinforced impact modified nylon. These materials combine impact strength, high moduli and electrical conductivity.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Features	Conductivity		
	Antistatic property		
	Impact resistance, good		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6550	MPa	ASTM D638
Tensile Strength (Yield)	110	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength (Yield)	159	MPa	ASTM D790
Compressive Strength	110	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	160	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	750	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	252	°C	ASTM D648

1.8 MPa, not annealed	241	°C	ASTM D648
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.63	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Molding Shrinkage, Linear-Flow, ASTM D955, 6.35mm: 3mm/m.			
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	20	%	
Rear Temperature	274 - 293	°C	
Middle Temperature	274 - 293	°C	
Front Temperature	274 - 293	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection Pressure	103 - 124	MPa	
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 90	rpm	
Clamp Tonnage	6.2 - 9.7	kN/cm ²	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

