

# RTP 201H HS

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.

The 200H series materials have among the highest impact strengths of any RTP. Notched impact strength is double that of other glass reinforced nylon materials.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Impact modifier heat stabilizer		
Features	Impact modification Thermal Stability		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.90	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3590	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Compressive Strength	62.1	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	190	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	1200	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	253	°C	ASTM D648
1.8 MPa, not annealed	232	°C	ASTM D648
CLTE - Flow	4.7E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.40	W/m/K	ASTM C177
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.55		ASTM D150
Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	90.0	sec	ASTM D495
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94

#### Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 12mil/in.

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Suggested Max Re grind	20	%
Rear Temperature	282 - 296	°C
Middle Temperature	282 - 296	°C
Front Temperature	282 - 296	°C
Mold Temperature	65.6 - 107	°C
Injection Pressure	103 - 138	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



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