

RTP 100 HS

Polypropylene

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			
Features	Good Thermal Stability		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1310	MPa	ASTM D638
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Flexural Strength (Yield)	48.3	MPa	ASTM D790
Compressive Strength	46.9	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	21	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	107	°C	
1.8 MPa, Unannealed	54.4	°C	
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.13	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength	26	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	2.20		ASTM D150
Dissipation Factor (1 MHz)	2.0E-4		ASTM D150
Arc Resistance (1.59 mm)	136	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Suggested Max Regrind	20	%	
Rear Temperature	232 to 263	°C	
Middle Temperature	238 to 268	°C	
Front Temperature	243 to 274	°C	
Mold Temperature	32.2 to 65.6	°C	
Injection Pressure	68.9 to 138	MPa	
Back Pressure	0.172 to 0.345	MPa	
Clamp Tonnage	5.5 to 8.3	kN/cm ²	

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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

