

RTP 207E

Polyamide

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 200 E Series is based on amorphous nylon. Because it is amorphous it has better dimensional stability than the high crystalline nylons yet retains the desirable properties of the nylon family.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Good dimensional stability		
	Crystallization		
	amorphous		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.16	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	221	MPa	ASTM D638
--	207	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength			ASTM D790
--	303	MPa	ASTM D790
Yield	324	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	120	J/m	ASTM D256

Unnotched Izod Impact (3.18 mm)	1100	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	143	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.58	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.90		ASTM D150
Dissipation Factor (1 MHz)	0.018		ASTM D150
Arc Resistance	100	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	HB		UL 94
Additional Information			
Molding shrinkage, Linear-flow, ASTM D955, 0.25in: 2mil/in			
Injection	Nominal Value	Unit	
Suggested Max Moisture	0.10	%	
Suggested Max Regrind	20	%	
Rear Temperature	271 - 299	°C	
Middle Temperature	271 - 299	°C	
Front Temperature	271 - 299	°C	
Mold Temperature	65.6 - 98.9	°C	
Injection Pressure	103 - 124	MPa	
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	50 - 90	rpm	
Clamp Tonnage	6.9 - 11	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



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