RTP 209F

Polyamide 12

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 209F is a nylon 12 reinforced with glass fiber. This material exhibits low water absorption, good dimensional stability, and improved low temperature resistance compared to most other nylons.

General Information					
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight				
Features	Good dimensional stability				
	Low temperature impact resistance				
	Low or no water absorption				
RoHS Compliance	Contact manufacturer				
Appearance	Black				
	Natural color				
Forms	Particle				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.45	g/cm³	ASTM D792		
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955		
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	115		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	8960	МРа	ASTM D638		
Tensile Strength	148	MPa	ASTM D638		
Tensile Elongation (Break)	4.5	%	ASTM D638		
Flexural Modulus	8620	MPa	ASTM D790		
Flexural Strength	214	MPa	ASTM D790		
Compressive Strength	110	MPa	ASTM D695		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (6.35 mm)	230	J/m	ASTM D256		
Unnotched Izod Impact (6.35 mm)	1100	J/m	ASTM D4812		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load			ASTM D648		
0.45 MPa, not annealed	182	°C	ASTM D648		

1.8 MPa, not annealed	177	°C	ASTM D648
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.50	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)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.016		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	НВ		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-95	55, 0.25in.: 4mil/in.Flammability, /	ASTM D-635: B in/min.	
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Suggested Max Regrind	20	%	
Rear Temperature	221 - 254	°C	
Middle Temperature	221 - 254	°C	
Front Temperature	221 - 254	°C	
Mold Temperature	37.8 - 65.6	°C	

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MPa

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

68.9 - 103

Tel: +86 21 5895 8519

Injection Pressure

Phone: +86 13424755533 Email: sales@su-jiao.com

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

