RTP 203.3D

Polyamide 612

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 RTP 200D series materials have better dimensional stability, toughness, and lower water absorption than most other glass filled nylons. They also display good moldability and ease of flow.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 23% filler by weight		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.23	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.35	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.27	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7580	MPa	ASTM D638
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation (Break)	3.2	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Compressive Strength	141	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	91	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	690	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	216	°C	ASTM D648
1.8 MPa, not annealed	213	°C	ASTM D648
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.35	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70		ASTM D150
Dissipation Factor (1 MHz)	0.012		ASTM D150
Arc Resistance	115	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25 in.: 4.5 mil/in.			
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	254 - 282	°C	
Middle Temperature	254 - 282	°C	
Front Temperature	254 - 282	°C	
Mold Temperature	60.0 - 93.3	°C	
Injection Pressure	68.9 - 138	MPa	

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

WECHAT