RTP 207D TFE 15 FR

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.
RTP 207D TFE 15 FR is a glass reinforced, PTFE lubricated flame retardant 6/12 nylon. This material offers an excellent combination of physical strength, moduli, wear resistance, low moisture absorption and flame retardance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.54	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength	152	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	221	MPa	ASTM D790
Compressive Strength	145	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	130	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	218	°C	ASTM D648
1.8 MPa, not annealed	216	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+13	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94

Additional Information
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 4mil/in.Wear Factor, K, ASTM D-3702: 20E-10in³/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.30Coefficient of Friction, Static, ASTM D-3702: 0.20The wear factor and dynamic coefficient of friction were both tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV against C1018 Steel Hardness 15-25 Rockwell C, 14-17 micro smoothness.

Injection	Nominal Value	Unit
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 - 103	MPa

Recommended distributors for this material

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