

RTP 207A TFE 15 HS

Polyamide 6

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			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	PTFE lubricant (15%) heat stabilizer		
Features	Thermal Stability Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	234	MPa	ASTM D790
Compressive Strength	138	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	120	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648

1.8 MPa, not annealed	204	°C	ASTM D648
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.52	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 3mil/in.Tensile Elongation, ASTM D-638: 2-3%Flammability, ASTM D-635: B in/min.			
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	20	%	
Rear Temperature	232 - 260	°C	
Middle Temperature	232 - 260	°C	
Front Temperature	232 - 260	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection Pressure	68.9 - 138	MPa	

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Recommended distributors for this material

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