

# RTP 207.3

Polyamide 66

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.  
Glass fiber reinforced nylon 6/6 offers significant improvements in strength, moduli and deflection temperature over the base polymer. Heat stabilized grade also available.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 43% filler by weight		
Features	High strength		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30	%	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	13200	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	221	MPa	ASTM D638
--	186	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	12200	MPa	ASTM D790
Flexural Strength			ASTM D790
--	286	MPa	ASTM D790
Yield	310	MPa	ASTM D790
Compressive Strength	162	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	140	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	260	°C	ASTM D648
1.8 MPa, not annealed	252	°C	ASTM D648
CLTE - Flow	3.4E-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
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Arc Resistance (1.59 mm)	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94

#### Additional Information

The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 5mil/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	274 - 288	°C
Middle Temperature	274 - 288	°C
Front Temperature	274 - 288	°C
Mold Temperature	65.6 - 107	°C
Injection Pressure	68.9 - 124	MPa
Back Pressure	0.172 - 0.345	MPa
Screw Speed	50 - 90	rpm
Clamp Tonnage	6.9 - 11	kN/cm <sup>2</sup>

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#### Recommended distributors for this material

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