

# RTP 203A MS

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.  
The coefficient of friction was tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	Molybdenum disulfide lubricant		
Features	Good wear resistance		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6210	MPa	ASTM D638
Tensile Strength (Yield)	117	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	4690	MPa	ASTM D790
Flexural Strength (Yield)	145	MPa	ASTM D790
Coefficient of Friction (With Metal-Dynamic)	0.35		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	204	°C	ASTM D648
1.8 MPa, not annealed	193	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating (1.59 mm, RTP Tested)	HB	UL 94
Additional Information		
Molding Shrinkage, ASTM D955, Linear-Flow, 0.25 in.: 0.007 in/inWear Factor, K, in <sup>3</sup> min/ft/lb/hr x10 <sup>-10</sup> : 90		
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	218 - 293	°C
Middle Temperature	218 - 293	°C
Front Temperature	218 - 293	°C
Mold Temperature	65.6 - 107	°C
Injection Pressure	68.9 - 103	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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