## RTP 205A 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.

RTP 205A MS is a nylon 6 containing glass fiber reinforcement and a molybdenum disulfide lubricant. It offers improved wear resistance and low coefficients of friction.

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% 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	1.43	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955	
Water Absorption (23°C, 24 hr)	1.0	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	120		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	9650	MPa	ASTM D638	
Tensile Strength	159	MPa	ASTM D638	
Tensile Elongation (Break)	2.5	%	ASTM D638	
Flexural Modulus	8960	MPa	ASTM D790	
Flexural Strength	234	MPa	ASTM D790	
Compressive Strength	124	MPa	ASTM D695	
Coefficient of Friction (With Metal-Dynamic)	0.30		ASTM D1894	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	85	J/m	ASTM D256	
Unnotched Izod Impact (3.18 mm)	800	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	204	°C	ASTM D648
CLTE - Flow	3.8E-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+15	ohms•cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	НВ		UL 94
Additional Information			

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 0.006 in/inWear Factor, K, ASTM D-3702: 80E-10in<sup>3</sup>/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.30The 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 of hardness 15-25 Rockwell C, 14-17 micro smoothness.

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 - 288	°C
Middle Temperature	232 - 288	°C
Front Temperature	232 - 288	°C
Mold Temperature	65.6 - 93.3	°C
Injection Pressure	68.9 - 103	MPa

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## Recommended distributors for this material

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