

RTP 205D MS

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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Molybdenum disulfide lubricant		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8620	MPa	ASTM D638
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	7580	MPa	ASTM D790
Flexural Strength	200	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	80	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	218	°C	ASTM D648
1.8 MPa, not annealed	216	°C	ASTM D648
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.46	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	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.: 4mil/in.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	254 - 282	°C
Middle Temperature	254 - 282	°C
Front Temperature	254 - 282	°C
Mold Temperature	60.0 - 93.3	°C
Injection Pressure	68.9 - 138	MPa

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Recommended distributors for this material

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