

RTP 200 MS

Polyamide 66

RTP Company

Technical Data

Product Description

Molybdenum Disulfide - UL94 HB

General

Additive	• Molybdenum Disulfide Lubricant
Features	• Lubricated
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.18	1.18 g/cm ³	ASTM D792
Molding Shrinkage - Flow (0.126 in (3.20 mm))	0.010 to 0.014 in/in	1.0 to 1.4 %	ASTM D955
Water Absorption (73°F (23°C), 24 hr)	0.90 %	0.90 %	ASTM D570
Moisture Content	0.20 %	0.20 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	600000 psi	4140 MPa	ASTM D638
Tensile Strength	12000 psi	82.7 MPa	ASTM D638
Tensile Elongation (Yield)	4.0 to 6.0 %	4.0 to 6.0 %	ASTM D638
Flexural Modulus	500000 psi	3450 MPa	ASTM D790
Flexural Strength	19000 psi	131 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (0.126 in (3.20 mm))	0.80 ft·lb/in	43 J/m	ASTM D256
Unnotched Izod Impact (0.126 in (3.20 mm))	22 ft·lb/in	1200 J/m	ASTM D4812

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	118	118	ASTM D785

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	450 °F	232 °C	
264 psi (1.8 MPa), Unannealed	210 °F	98.9 °C	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	> 1.0E+15 ohm·cm	> 1.0E+15 ohm·cm	ASTM D257
Dielectric Strength ⁴ (in Oil)	480 V/mil	19 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.70	3.70	ASTM D150
Dissipation Factor (1 MHz)	0.015	0.015	ASTM D150

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0591 in (1.50 mm))	HB	HB	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	175 °F	79.4 °C
Drying Time	4.0 hr	4.0 hr
Dew Point	0.00 °F	-17.8 °C
Processing (Melt) Temp	530 to 570 °F	277 to 299 °C
Mold Temperature	150 to 225 °F	65.6 to 107 °C
Injection Pressure	10000 to 18000 psi	68.9 to 124 MPa