

RTP 400 HI SI 1

Polystyrene Alloy

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			
Additive	Silicone lubricant (1%)		
Features	Impact resistance, high		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.30	%	ASTM D955
6.35mm, injection molding	0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	2070	MPa	ASTM D638
Tensile Strength	24.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	5.0	%	ASTM D638
Flexural Modulus (Injection Molded)	2410	MPa	ASTM D790
Flexural Strength (Injection Molded)	48.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	120	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, unannealed, injection molded	93.0	°C	ASTM D648
1.8 MPa, unannealed, injection molded	77.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94

Additional Information

The value listed as Flammability, UL 94, was tested in accordance with RTP Company methods.

Injection	Nominal Value	Unit
Rear Temperature	204 - 238	°C
Middle Temperature	204 - 238	°C
Front Temperature	204 - 238	°C
Mold Temperature	38.0 - 66.0	°C
Injection Pressure	69.0 - 103	MPa

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Recommended distributors for this material

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