RTP 400 HI SI 10

General Purpose Polystyrene

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.
-Preliminary Product Data per RTP Co.-

General Information			
Additive	Impact modifier Silicone lubricant (10%)		
Features	Impact modification Impact resistance, good Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.04	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2480	MPa	ASTM D638
Tensile Strength	37.2	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	2550	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Coefficient of Friction (With Metal-Dynamic)	0.10		ASTM D1894
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	11	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	53	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	93.3	°C	ASTM D648

1.8 MPa, not annealed	73.9	°C	ASTM D648
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.14	W/m/K	ASTM C177

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 6mil/in.Tensile Elongation, ASTM D-638: 2-3%Wear Factor, K, ASTM D-3702: 35E-10in^3/min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: <0.10The wear factor and 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	82.2	°C
Drying Time	2.0	hr
Suggested Max Regrind	20	%
Rear Temperature	210 - 260	°C
Middle Temperature	210 - 260	°C
Front Temperature	210 - 260	°C
Mold Temperature	48.9 - 71.1	°C
Injection Pressure	68.9 - 138	MPa
Back Pressure	0.345	MPa

Recommended distributors for this material

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