

Saint-Gobain COHRLastic® 500 General Purpose Silicone Solid Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone

Material Notes:

Description: COHRLastic® solid silicone rubber in square sheet and continuous length form has a smooth, blemish-free surface. It is available in degrees of hardness from relatively soft 30 durometer to the relatively hard 70 durometer on the Shore A scale. It is manufactured in different formulations to provide a choice of physical properties and cost considerations. Series 300-700: COHRLastic general-purpose molded sheet is available in thicknesses up to 1/2" and it withstands temperatures from -100°F to +500°F. RED in color. All data based on a 0.25 inch test sample. (Also comes in thicknesses from 1/16" to 1/2") Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-COHRLastic-500-General-Purpose-Silicone-Solid-Rubber.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45 - 55	45 - 55	Increases by 5 after dry heat aging for 70 hrs at 437°F.; ASTM D2240
Tensile Strength, Yield	4.83 MPa	700 psi	Tensile strength decreases by 15% after dry heat aging for 70 hrs at 437°F.; ASTM D412
Elongation at Break	350 %	350 %	Elongation properties decrease by 15% after dry heat aging for 70 hrs at 437°F.; ASTM D412
Tear Strength	12.3 kN/m	70.0 pli	Initial Tear Strength; ASTM D624
Compression Set	15 % @Temperature 160 °C	15 % @Temperature 320 °F	Constant Deflection, 70 hrs.; ASTM D395

Thermal Properties	Metric	English	Comments
CTE, linear	270 µm/m-°C @Temperature 20.0 °C	150 µin/in-°F @Temperature 68.0 °F	
Specific Heat Capacity	1.26 J/g-°C	0.300 BTU/lb-°F	
Thermal Conductivity	0.187 W/m-K	1.30 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.7 kV/mm	500 kV/in	

Descriptive Properties	Value	Comments
Color	Red	

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