

Saint-Gobain COHRLastic® 9275 High Performance 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. 9200 Series: COHRLastic 9200 High Performance Series provides excellent tensile strength and superior tear resistance. It is tougher and more resilient than general-purpose silicone. Standard thicknesses are 1/32", 1/16" and 1/8", and it withstands temperatures ranging from -100°F to +400°F. A minimum thickness of 0.015" is available on a minimum quantity basis. All data based on a 0.0625 inch test sample. (Also comes in thicknesses from 1/32" to 1/8") Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-COHRLastic-9275-High-Performance-Silicone-Solid-Rubber.php

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------------------------|-----------------------------|--|
| Hardness, Shore A | 65 - 75 | 65 - 75 | Increases by 10 after dry heat aging for 70 hrs at 437°F.; ASTM D2240 |
| Tensile Strength, Yield | 8.27 MPa | 1200 psi | Tensile strength decreases by 25% after dry heat aging for 70 hrs at 437°F.; ASTM D412 |
| Elongation at Break | 350 % | 350 % | Elongation properties decrease by 35% after dry heat aging for 70 hrs at 437°F.; ASTM D412 |
| Tear Strength | 26.3 kN/m | 150 pli | Initial Tear Strength; ASTM D624 |
| Compression Set | 30 % @Temperature 160 °C | 30 % @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 Descriptive Properties | Gray Value | Comments |
|---------------------------------|---------------|----------|
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