

Saint-Gobain COHRLastic[®] CF4420 High Heat Reinforced Solid Rubber

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

Material Notes:

Description: COHRLastic[®] CF silicone solid rubber reinforced with fiberglass is a dimensionally-stable, durable material for press pads, belting and gasketing. It is available in six constructions. CF 4420 is specially formulated for thermal stability and long life under extreme heat and pressure for extended dwell times. It resists reversion (i.e. softening and outgassing) longer than general purpose silicone. Throughout its useful life, 4420 has thermal stability for consistent thermal conductivity. All data based on a 0.0625 inch test sample. (Also available in 0.045"; Thickness shown is for silicone rubber. Fiberglass thickness = 0.014".) Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-COHRLastic-CF4420-High-Heat-Reinforced-Solid-Rubber.php

Physical Properties	Metric	English	Comments
Volatile Organic Compounds (VOC) Content	<= 0.50 g/l	<= 0.50 g/l	Weight Loss (4 hrs at 400 [°] F)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	
Elongation at Break	<= 10 %	<= 10 %	
Flexural Strength	3.45 MPa	500 psi	Diaphragm Burst Strength
Tear Strength	52.6 kN/m	300 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	270 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	150 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	Silicone rubber component
Thermal Conductivity	0.274 W/m-K	1.90 BTU-in/hr-ft 2 - $^{\circ}\text{F}$	

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

Descriptive Properties	Value	Comments
Color	Brown	

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