Trelleborg S550 Silicone Rubber

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

Material Notes:

PropertiesExcellent resistance to heat (dry air), at +200°C continuous and +220°C intermittent.Remains flexible at low temperatures of -70°C.Resistant to ultra-violet light, ozone and weathering.Exhibits low flammability and low smoke toxicity.Good electrical insulation properties.Silicone rubber is physiologically inert, thus making it the preferred choice of the medical, pharmaceutical and food processing industries.Silicones have comparatively low mechanical properties, tensile strength, elongation and tear strength, however they keep constant even at high temperatures but should not be used with high pressure steam.Resistance to chemicals; its resistance to oils and hydrocarbon products is fairly limited and similar to that of Chloroprene rubbers. Reasonable resistance to a whole range of general chemical products, but acids, alkalis, esters and ketones should be avoided.All information provided by Trelleborg

Order this product through the following link:
http://www.lookpolymers.com/polymer_Trelleborg-S550-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	
Tensile Strength, Yield	7.00 MPa	1020 psi	
Elongation at Break	350 %	350 %	
Tear Strength	17.0 kN/m	97.0 pli	
Compression Set	40 % @Temperature 70.0 °C, Time 79200 sec	40 % @Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	

Descriptive Properties	Value	Comments
Color	Semitransparent	

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