

## Precision Polymer Engineering S80U Silicone Rubber

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

### Material Notes:

Translucent Silicone Rubber, 70 -80 °IRHD. Shore A Platinum cured Silicone rubber having both methyl and vinyl substituent groups on the polymer chain. Silicone compound in conformity with the requirements of USP 25, NF20, 2002, Class 6. Formulated using only those ingredients authorized by FDA CFR21 Section 177.2600. BGV XV compliant. Formulated to BS2494 Type 'W' and Water Research Council (WRC) tested in accordance with BS6920 'Items which have passed full tests of effects on water quality' (for use in potable water applications). WRC approval No. 0005509. Tested to 3A requirements. Applications: Compared to equivalent silicones, excellent mechanical and physical properties, and chemical stability over the temperature range of -60°C to +200°C. Excellent behaviour when sterilised. High transparency grade, intended for food contact, pharmaceutical contact, pharmaceutical and biomedical applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Precision-Polymer-Engineering-S80U-Silicone-Rubber.php](http://www.lookpolymers.com/polymer_Precision-Polymer-Engineering-S80U-Silicone-Rubber.php)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	78	78	°IRHD; ASTM D1415
	83	83	°IRHD, +5 change after 168 hours @ 200°C; ASTM D1415
Tensile Strength, Yield	8.50 MPa	1230 psi	ASTM D412
	9.35 MPa	1360 psi	10% change after 168 hours @ 200°C; ASTM D412
Elongation at Break	472.8 %	472.8 %	-1.5% change after 168 hours @ 200°C; ASTM D412
	480 %	480 %	ASTM D412
Compression Set	32.2 %	32.2 %	22 hours @ 175°C; ASTM D395

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Flash Point	>= 300 °C	>= 572 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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