

# Precision Polymer S50T

Silicone

Precision Polymer Engineering Ltd.

## Message:

Translucent Silicone Rubber, 45-55 °IRHD. Silicone rubber having both methyl and vinyl substituent groups on the polymer chain.

Excellent heat resistance and low temperature flexibility. Used primarily for dry heat static seals, (the low physical strength and poor abrasion resistance prevents dynamic sealing).

General Information			
Features	Flexibility at low temperatures		
	Heat resistance, high		
Uses	Seals		
Appearance	Translucent		
Hardness	Nominal Value	Test Method	
IRHD Hardness	50	ASTM D1415, ISO 48	
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8.00	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	500	%	ASTM D412, ISO 37
Compression Set			
175°C, 24 hr	35	%	ASTM D395B
175°C, 24 hr <sup>1</sup>	35	%	ISO 815
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	250	°C	
Low Temperature Resistance - Non-brittle after 3 mins	-60	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -60°C (-76°F)			
NOTE			
1.	Type B		

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