

ELASTOMERS - POLYURETHANE (PU) & SILICONE MATERIAL DATASHEET RANGE.

MATERIAL PROPERTIES (for comparative purposes only).



Properties	Standard	Units	Results (Full Cure)						
Hardness*	BS EN ISO 868	Shore A	35	45	55	65	75	85	95
Tensile Strength	BS EN ISO 37	MPa	2.5	4	5	7	8.5	10.5	10.5
Elongation at Break	BS EN ISO 37	%	1000	1200	750	550	450	350	250
Tear Strength	BS EN ISO 34	kN/m	9.5	15.5	20.5	25.5	39.5	58.5	77.5
Max. Operating Temperature **	Short Term (<1 hour)	°C	100	100	100	100	120	120	120
	Long Term (24 hours)	°C	60	60	60	60	80	80	80
Linear Shrinkage	500 x 50 x 10mm	%	0.30						
Appearance	-	-	Translucent / white flexible solid						

Silicones		
Shore Hardness	40 A	60 A
Tensile Strength	6.4	7.4
Elongation to Break	380%	350%
Tear Strength kN/m	20	16
Temperature (G.T)	>200°C	>200°C
Appearance	Opaque	Opaque

*Hardness can be affected by many factors such as reaction temperature, cup loss, products storage conditions, etc. The values listed are typical values only, they should not be considered as a specification. We would generally expect the hardness to be within 5 shore A of the stated value.

** Maximum operating temperature is application specific; we recommend customers carry out full testing to determine suitability.

N.B. Not all materials offered across all sites