

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

MATERIAL PROPERTIES (for comparative purposes only).



NAME	PU ELASTOMERS				SILICONES	
	EL42	EL60	EL70	EL85	SR40	SR60
Tensile Strength (Mpa)	1.72	2.38	5.03	7.34	6.4	7.4
Elongation To Break	200%	235%	175%	250%	380%	350%
Flexural Strength (Mpa)					-	-
Flexural Modulus (Mpa)					-	-
Shore Hardness	42A	60A	70A	85A	40 A	60 A
Impact Strength (kJ/m <sup>2</sup> )					-	-
Thermal Test Method					-	-
Temperature (H.D.)						
Temperature (G.T)					> 200°C	> 200°C
Specific Gravity	1.03	1.03	1.05	1.06	1.10	1.1
Resin Base Colour	Yellow / Transparent	Creamy Yellow	Creamy Yellow	Translucent Beige	Clear	Clear
Tear Strength kN/m	8.8	12.3	22.8	33.2	20	16
UV Stable						
Refractive Index						
Elastic Modulus (psi)	160	190	915	2700		
Max Cast Thickness (mm)	-	-	-	-	-	-
Min Cast Thickness (mm)	1.8	1.8	1.8	1.8	-	-
Min Features (mm)	1.0	1.0	1.0	1.0		
<b>Simulates</b>	<b>42A</b>	<b>60A</b>	<b>70A</b>	<b>85A</b>	<b>40A Sili</b>	<b>60A Sili</b>

Last Updated: June 2015