

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 ²) | | | | | - | - |
| 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 | | |
| Simulates | 42A | 60A | 70A | 85A | 40A Sili | 60A Sili |

