

Thermal Interface Material



U 90



- Filled polyurethane film
- Excellent electrical properties
- Excellent thermal properties
- Silicone free

Applications

- Medical
- Laser equipment
- Lighting systems
- Optical drives
- Aerospace

Options

- Available with one side adhesive coating as U 90K
- Other thicknesses maybe available, subject to minimum order quantities

The data provide engineering guidance, performance in actual applications should be established through testing.

| Properties | Unit | U 90 |
|--------------------------------------|-----------------------------|--|
| Color | | Light Blue |
| Thermal Properties | | |
| Thermal Conductivity | W/mK | 6.0 |
| Thermal Resistance | K/W | 0.082 |
| Electrical Properties | | |
| Breakdown Voltage $U_{d; ac}$ | kV | 4 |
| Dielectric Breakdown $E_{d; ac}$ | kV/mm | 25 |
| Volume Resistivity | Ωm | 2.0×10^{11} |
| Dielectric Constant ϵ_r | | 3.1 |
| Dielectric Loss factor $\tan \delta$ | | 14×10^{-3} |
| Mechanical Properties | | |
| Hardness | Shore A | 70-85 |
| Tensile Strength | MPa (psi) | 2 (290) |
| Elongation | % | 150 |
| Physical Properties | | |
| Application Temperature | $^{\circ}C$ ($^{\circ}F$) | -40 to +125 (-40 to +257) |
| Density | g/cm^3 | 1.46 |
| Flame rating | UL-94 | V-0 |
| Standard Thickness | mm (inch) | 0.100, 0.200, 0.300 (0.004, 0.008, 0.012) |

