



Product Description

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|--------------------------|---|
| EMS Material Designation | LA180R |
| ASTM Type | |
| Numer of Layers | 3 |
| Standard Marking | TRUFLEX LA180R |
| Remarks | Intermediate Electrical Resistivity with Medium Flexivity |

Chemical Composition

| | <u>Grade</u> | <u>Chemistry</u> |
|----------------------|--------------|-----------------------|
| High Expansion Alloy | Alloy LA | 20% Ni, 6% Mn, Bal Fe |
| Center Layer | Nickel | Ni |
| Low Expansion Alloy | Alloy 10 | 36% Ni, Bal Fe |

Thermostatic Properties

ENGLISH

METRIC

| | | | |
|---------------------------------------|------------|-----------------------------------|------------------------------------|
| ASTM Flexivity | (68-266°F) | 146 X 10 ⁻⁷ (in/in)/°F | |
| Specific Curvature | (20-130°C) | | 26.3 X 10 ⁻⁶ (mm/mm)/°C |
| Maximum Sensitivity Temperature Range | | 0 to 300°F | -20 to 150°C |
| Useful Deflection Temperature Range | | -100 to 700°F | -70 to 370°C |
| Recommended Maximum Temperature | | 1000°F | 540°C |
| Electrical Resistivity @ 75°F (24°C) | | 170.1 to 189.9 *0CMF | 0.283 to 0.316 uohms-m |

Physical Properties

ENGLISH

METRIC

| | | |
|---------------------------|--------------------------|------------------------|
| Density | 0.297 Lb/in ³ | 8.22 g/cm ³ |
| Modulus of Elasticity (E) | 25.0 Msi | 172 GPa |

*Ohms-Circular-Mil / Foot