



COMPOUND: ARYLEX® A457

POLYMER: Polyetheretherketone (PEEK)

DESCRIPTION: Bearing and Wear grade PEEK Compound. Compression molded stock shapes and machined parts.

| Property | Test Method | Internal Specification Values | Typical Values | Units |
|--|-------------|-------------------------------|---|---|
| Specific Gravity | ASTM D792 | 1.45 ± .03 | 1.45 | - |
| Hardness | ASTM D2240 | 85 ± 5 | 85 | SHORE-D |
| Tensile Strength at Break | ASTM D1708 | 8,000 (55.16) Minimum | 9,500 (65.50) | PSI (MPa) |
| Elongation at Break | ASTM D1708 | 2.00 Minimum | 3.50 | % |
| Tensile Modulus | ASTM D1708 | | 275 (1.90) | KSI (GPa) |
| Wear Test Properties @ 200 PSI, 100 FPM, against Carbon Steel Coefficient of Friction Wear Rate | ASTM D3702 | --- | 0.46 1.85 X 10 ⁻⁵ | Inch/Min |
| Coefficient of Linear Thermal Expansion 70 - 200 °F (21.1 – 93.3 °C) 70 - 300 °F (21.1 – 148.9 °C) 70 – 400 °F (21.1 – 204.4 °C) 70 – 500 °F (21.1 – 260.0 °C) | ASTM E831 | --- | 1.69 / 2.94 (3.04 / 5.29) 1.76 / 3.25 (3.17 / 5.85) 1.92 / 4.59 (3.46 / 8.26) 2.17 / 5.80 (3.91 / 10.44) | Axial / Transverse X 10 ⁻⁵ °F ⁻¹ (°C ⁻¹) |

REV. B – Updated company name and disclaimer statement, 4-14-2023

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