



PROMETHEUS
TECHNOLOGY

RGD525

HIGH TEMPERATURE MATERIAL SIMULATING ENGINEERING PLASTICS

| | ASTM | UNITS | METRIC | UNITS | IMPERIAL |
|--|---------------------|-------------------|-----------|------------|-----------------|
| Tensile Strength | D-638-03 | MPa | 70-80 | psi | 10,000-11,500 |
| Elongation at Break | D-638-05 | % | 10-15 | % | 10-15 |
| Modulus of Elasticity | D-638-04 | MPa | 3200-3500 | psi | 465,000-510,000 |
| Flexural Strength | D-790-03 | MPa | 110-130 | psi | 16,000-19,000 |
| Flexural Modulus | D-790-04 | MPa | 3100-3500 | psi | 450,000-510,000 |
| HDT, °C @ 0.45MPa | D-648-06 | °C | 63-67 | °F | 145-163 |
| HDT, °C @ 0.45MPa after thermal post treatment procedure A | D-648-06 | °C | 75-80 | °F | 167-176 |
| HDT, °C @ 1.82MPa | D-648-07 | °C | 55-57 | °F | 131-135 |
| Izod Notched Impact | D-256-06 | J/m | 14-16 | ft lb/inch | 0.262-0.300 |
| Water Absorption | D-570-98 24hr | % | 1.2-1.4 | % | 1.2-1.4 |
| T _g | DMA, E _» | °C | 62-65 | °F | 144-149 |
| Shore Hardness (D) | Scale D | Scale D | 87-88 | Scale D | 87-88 |
| Rockwell Hardness | Scale M | Scale M | 78-83 | Scale M | 78-83 |
| Polymerized Density | ASTM D792 | g/cm ³ | 1.17-1.18 | | |
| Ash Content | USP281 | % | 0.38-0.42 | % | 0.38-0.42 |