

MATERIAL DATASHEET

RULON® W2

Features: Black, low friction and excellent wear characteristics

Benefits: Compatible with most metal substrates and soft mating surfaces

Working Temperature Range: -240° to +288°C [-400° to +550°F]

| Properties | Test Methods | Typical Values | Units |
|--|--------------|----------------|--|
| PHYSICAL | | | |
| Specific Gravity | ASTM D792 | 2.1 | -- |
| Hardness | ASTM D2240 | 57 – 67 | Shore D |
| Water Absorption, 24hr | ASTM D570 | 0 | % |
| MECHANICAL | | | |
| Tensile Strength | ASTM D4894 | 16.5 [2,400] | MPa [psi] |
| Elongation | ASTM D4894 | 200 | % |
| Tensile Modulus | ASTM D4894 | 0.29 [0.42] | GPa [psi x 10 ⁵] |
| Compressive Stress @ 1% Strain | ASTM D695 | 6.0 [880] | MPa [psi] |
| Compressive Modulus | ASTM D695 | 0.58 [0.85] | GPa [psi x 10 ⁵] |
| Flexural Stress @ 1% Strain | ASTM D790 | 5.6 [815] | MPa [psi] |
| Flexural Modulus | ASTM D790 | 0.53 [0.78] | GPa [psi x 10 ⁵] |
| Deformation under load, 2000 psi & RT | ASTM D621 | 3.0 | % |
| THERMAL | | | |
| Thermal Conductivity | ASTM D2214 | 0.65 [4.5] | W/m·°C [BTU·in/hr·ft ² ·°F] |
| Flammability | ASTM D635 | Non-flammable | m/s [in/min] |
| TRIBOLOGICAL | | | |
| Coefficient of Friction | - | 0.15 - 0.30 | - |
| OPERATING LIMITS MATING SURFACE | | | |
| Maximum Pressure | - | 6.9 [1,000] | MPa [psi] |
| Maximum Velocity (no pressure) | - | 2 [400] | m/s [ft/min] |
| Maximum PV | - | 0.35 [10,000] | MPa x m/s [psi x ft/min] |
| Rockwell / Brinnell Scale | - | Rb25 / 64 | Minimum |

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