REDWOOD PLASTICS
INNOVATIVE SOLUTIONS IN PLASTIC

# Redco™ FRP GRATING

| PROPERTIES<br>LW = Lengthwise, CW = Crosswise,<br>PF = Perpendicular to Laminate Face | TYPICAL VALUES METRIC | ASTM or UL TEST |
|---|---|---|
| **PHYSICAL** | | |
| TENSILE STRESS, kPa | | ASTM D-638 |
| LW | 206,880 | |
| CW | 48,272 | |
| TENSILE MODULUS, 106 kPa °C | | ASTM D-638 |
| LW | 1,827 | |
| CW | 585 | |
| COMPRESSIVE STRESS, kPa | | ASTM D-695 |
| LW | 206,880 | |
| CW | 103,440 | |
| COMPRESSIVE MODULUS, 106 kPa | | ASTM D-695 |
| LW | 1,827 | |
| CW | 731 | |
| FLEXURAL STRESS, kPa | | ASTM D-790 |
| LW | 206,880 | |
| CW | 68,960 | |
| FLEXURAL MODULUS, 106 kPa | | ASTM D-790 |
| LW | 1,316 | |
| CW | 585 | |
| MODULUS OF ELASTICITY, 106 kPa | 2,047 | Full Section |
| SHEAR MODULUS, 106 kPa | 329 | |
| Short Beam Shear, kPa | 31,032 | ASTM D-2344 |
| Punch Shear, kPa | 68,960 | ASTM D-732 |
| NOTCHED IZOD IMPACT, gcm/cm | | ASTM D-256 |
| LW | 136075 | |
| CW | 21772 | |
| BARCOL HARDNESS | 45 | ASTM D-2583 |
| 24 HOUR WATER ABSORPTION, % MAX | 0.45 | ASTM D-570 |
| **THERMAL** | | |
| COEFFICIENT OF THERMAL EXPANSION, LW, 10-6 cm/cm/ °C | 20.32 | ASTM D-696 |
| **ELECTRICAL** | | |
| ARC RESISTANCE, LW, SECONDS | 120 | ASTM D-495 |
| DIELECTRIC STRENGTH, | | ASTM D-149 |
| LW, kV/mm | 889 | |
| PF, volts/mil | 200 | |
| DIELECTRIC CONSTANT, PF, @ 60hz | 5 | ASTM D-150 |
| TUNNEL TEST | 25 max. | ASTM E-84 |
| FLAMMABILITY | Nonburning | ASTM D-635 |

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