



Properties of Popular Mersen Grades

| | | 2910 | 1940 | 2020 | 2191 | 2124 | 2236 | 2245 | 2303 | 2320 | 2160 | 2175 |
|-----------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|-------|-------|
| | Units | | | | | | | | | | | |
| Density | g/cm ³ | 1.74 | 1.79 | 1.78 | 1.75 | 1.84 | 1.78 | 1.80 | 1.76 | 1.80 | 1.84 | 1.83 |
| Average Grain Size | µm | 30 | 13 | 15 | 13 | 13 | 10 | 8 | 16 | 13 | 5 | <4 |
| Resistivity | µ-ohm.cm | 1600 | 1397 | 1550 | 1168 | 1140 | 965 | 1520 | 1372 | 1120 | 1370 | 1397 |
| Flexural Strength | Mpa | 30 | 43 | 52 | 44 | 58 | 52 | 69 | 40 | 50 | 78 | 79 |
| Compressive Strength | Mpa | 67 | 89 | 98 | 97 | 124 | 105 | 141 | 83 | 110 | 157 | 121 |
| Hardness | Shore | 55 | 63 | 52 | 55 | 68 | 55 | 71 | 59 | 60 | 78 | 70 |
| C.T.E. | x 10 ⁻⁶ /°C (400-500C) | 4.1 | 5.2 | 4.3 | 4.2 | 5.5 | 4.0 | 5.2 | 4.8 | 4.8 | 6.0 | 7.5 |
| Porosity | | 17% | 12% | 9% | 12% | 8% | 15% | 14% | 15% | 10% | 13.5% | 11.5% |
| Thermal Conductivity | W/m°C | 77 | 93 | 85 | 110 | 112 | 140 | 85 | 95 | 122 | 102 | 93 |
| Ash | ppm | 750 | 300 | 750 | 750 | 350 | 300 | 500 | 700 | 300 | 400 | 400 |

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