

Long-life Grade

| Fire Performance | | | | | | | | | | |
|---|---------------|----------------------------------|---------------|-------------|-------------------|----------------|-----------|--------------------|----------------|--|
| Country | Thick (mm) | Thickness (mm) | | Test Method | | Classification | | Certif | Certificate No | |
| UK | 3 | | BS278 50BA | 2: 1970: | Method | | | WARF 56933 | RES No | |
| UK | 3 | | BS476 | : Part 7: | 1987 | Class | s 1Y | WARF 66300 | RES No | |
| France | 3 | 3 892/2002 | | | Class M2 | | | 5120606- DMAT/1 | | |
| Germany | 3 | 3 P-MPA-E-00-612 | | 12 Class B1 | | 16-22633/1 | | | | |
| UK | 3 (eml | 3 (embossed) BS476: Part 7: 1987 | | 1987 | Class 1Y | | | WARRES No 70651 | | |
| Light Transmission | | | | | | | | | | |
| Colour Code | 1mm | 2mm | 3mm | 4mm | 5mm | 6mm | 8mm | 10mm | 12mr | |
| Clear S | 90 | 89 | 88 | 87 | 86 | 86 | 86 | 84 | 82 | |
| Clear S (Embossed) | - | - | 84 | 83 | 82 | 81 | 77 | - | - | |
| Bronze CE | - | - | 54 | 53 | 54 | 54 | 53 | 51 | - | |
| Green CF | - | - | 41 | 38 | - | 41 | - | - | - | |
| Blue LM | - | - | - | - | - | 14 | - | - | - | |
| Opal FH | - | - | 37 | 32 | 31 | 26 | - | - | - | |
| Grey IM | - | - | - | 33 | - | 35 | - | - | - | |
| Technical Properties | | | | | | | | | | |
| Property | Test N | lethod | | | Unit | | Valu | ıe | | |
| Physical Properties | | | | | | | | | | |
| Density | DIN 5 | 3479 | | | g/cm ² | | 1.2 | | | |
| Light Transmission (3mm clear) | DIN 50 | 036 | | | °C | | 88 | | | |
| Refractive Index | DIN 5 | 3491 | | | | | 1.58 | 5 | | |
| Mechanical Properties | | | | | | | | | | |
| Tensile Strength at Yield | DIN 5 | 3455 | | | N/mm ² | | >60 | | | |
| Tensile Strength at Break | DIN 5 | 3455 | | | N/mm ² | | >70 | | | |
| Modulus of Elasticity | DIN 5 | 3457 | | | N/mm ² | | 2300 |) | | |
| Impact Strength at 23 °C (notched charpy) | DIN 5 | 3453 | | | Kj/m ² | | >30 | | | |
| Thermal Properties | | | | | | | | | | |
| Linear Expansion Co-efficient | | | | | l/k | | 68 x | 10 ⁻⁶ | | |
| Thermal Conductivity | DIN 5 | 2612 | | | W/mK | | 0.21 | | | |
| Heat Deflection Temperature Load 1.81 N/mm ² | DIN 5 | 3461 | | | °C | | 135 | | | |
| Maximum Continuous Service Temperature | | | | | °C | | 100 | | | |
| Thermal Transmittance - U Value | | | | | | | | | | |
| Thickness (mm) | Long | Life She | et (W/m^ | 2K) | | G | lass (W/r | n^2K) | | |
| 2mm | 5.56 | | | | | - | | | | |
| 3mm | 5.41 | | | | | 5 | .87 | | | |
| 4mm | 5.27 | | | | | 5 | .82 | | | |
| - | F 40 | | | | | | 20 | | | |
| 5mm | 5.13 | | | | | 5 | .80 | | | |

| 8mm | 4.76 | 5.71 |
|-------------------|------|------|
| 10mm | 4.55 | - |
| 12mm | 4.35 | - |
| | | |
| Weight Comparison | | |

| Weight Comparison | | |
|-------------------|---------------------|----------------|
| Thickness (mm) | Flat Sheet (Kg/m^2) | Glass (Kg/m^2) |
| 2mm | 2.40 | 5.00 |
| 3mm | 3.60 | 7.50 |
| 4mm | 4.80 | 10.00 |
| 5mm | 6.00 | 12.50 |
| 6mm | 7.20 | 15.00 |
| 8mm | 9.60 | 20.00 |
| 10mm | 12.00 | 25.00 |
| 12mm | 14.40 | 30.00 |

Product Forms

Standard Sheet

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