



Construction of Laminate

Technical Parameters of different Types of Laminates

| | | A | B | C | D | E |
|---|----------------------|-----------------------|-------|----------------------------------|---|---|
| | | MAT 450 (9 Layers) | SPC 5 | VL 40 SPC 5 SPC 5 VL 40 | MAT 450 MAT 450 SPC 5 MAT 450 MAT 450 | WR 330 MAT 225 SPC 2 VL 40 SPC 2 MAT 300 WR 330 |
| MAT : CSM-Mat SPC : sphere.core S (Fiberglass) VL : Glastissue WR : Woven-Roving | | | | | | |
| Thickness | (mm) | 9,00 | 5,10 | 9,85 | 9,21 | 6,30 |
| Resinabsorption | (g/m ²) | 8550 | 3080 | 6370 | 6260 | 4875 |
| Weigth | (g/m ²) | 12650 | 3200 | 6570 | 8131 | 6150 |
| Spec. Weigth DIN 53 479 | (g/cm ³) | 1,410 | 0,627 | 0,667 | 0,883 | 0,976 |
| Flex. Strength EN 63 | (MPa) | 200 | 11,40 | 34,90 | 175 | 264 |
| Flex. Modulus | (MPa) | 8000 | 1270 | 4300 | 5900 | 12200 |
| Tensile Strength lengthwise EN 61 | (MPa) | 90 | 6,20 | 75,70 | 91,00 | 120 |
| Tensile Strength crosswise EN 61 | (MPa) | 90 | 6,05 | 60,90 | 96,00 | 135 |
| Waterabsorption EN 53 495 | (%) | 0,200 | 0,185 | 0,175 | 0,133 | 0,125 |

sphere.core S Data's dry and impregnated with UP-resin

| | | 1 mm | 2 mm | 3 mm | 4 mm | 5 mm |
|------------|-------------------|------|------|------|------|------|
| Weigth dry | g/ m ² | 55 | 70 | 80 | 105 | 120 |
| Weigth wet | g/ m ² | 670 | 1315 | 1955 | 2610 | 3200 |