

## TECHNICAL DATA SHEET

|                                      |   |
|--------------------------------------|---|
| <b>Resin System</b>                  | OM14  |
| <b>Applications</b>                  | Industrial composites, automotive   |
| <b>Key Features</b>                  | Structural; compression moldable at 150 °C in 3 minutes; hot moldable and de-moldable; room temperature stable for 1 year |
| <b>Cure Temperature</b>              | 150 °C  |
| <b>Work Life</b>                     | 1 year @ 24 °C  |
| <b>Storage Life</b>                  | 1 year @ 24 °C  |
| <b>Fiber</b>                         | Carbon, E-glass   |
| <b>Weaving Style</b>                 | Plain, twill, UD  |
| <b>Dry Fabric Areal Weight (gsm)</b> | 110 - 600   |
| <b>%Resin Content (by weight)</b>    | 34 - 42 ± 2   |

### Cured Matrix Properties

| Cured Matrix Properties (cured at 100 °C for 12 hours ) |                         |      |
|---|-------------------------|------|
| <b>Tensile Test<br/>(ISO 527-2)</b>                     | Tensile Strength (MPa)  | 65.5 |
|   | Young's modulus (GPa)   | 3.0  |
|   | Elongation at break (%) | 2.5  |
| <b>Flexural Test<br/>(ISO 178)</b>                      | Flexural Strength (MPa) | 120  |
|   | Flexural Modulus (GPa)  | 3.5  |
| <b>Tg (°C) (DMA)</b>                                    | Onset of E'             | ≥140 |

### Cure Profile

### Compression Molding

#### Recommended Curing Cycle at 150 °C

- 1) Pre-heat the press to 150 °C
- 2) Place the laminate into hot press and hold the laminate at that temperature applying 1 - 4 bar for 1- 3 minutes
- 3) De-mold the laminate

**[www.kordsaglobal.com](http://www.kordsaglobal.com)**

**[reinforcer@kordsaglobal.com](mailto:reinforcer@kordsaglobal.com)**

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