

# ForTii® CX33F

## PPA-GF50

50% Glass Reinforced, PA4T, Chemical resistant to a wide range of chemicals, Low Warpage, Wear and Friction Modified

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ForTii CX33F is a high stiffness, low warpage material for metal replacement which is optimized for low friction and good scratch resistance. ForTii CX33F is resistant to a wide range of chemicals.

| Properties                                | Typical Data  | Unit              | Test Method    |
|---|---------------|-------------------|----------------|
| <b>Rheological properties</b>             |               |                   |                |
| Molding shrinkage (parallel)              | 0.2 / *       | %                 | ISO 294-4      |
| Molding shrinkage (normal)                | 0.7 / *       | %                 | ISO 294-4      |
| <b>Mechanical properties</b>              |               |                   |                |
| Tensile modulus                           | 17000 / 17000 | MPa               | ISO 527-1/-2   |
| Stress at break                           | 275 / 275     | MPa               | ISO 527-1/-2   |
| Strain at break                           | 2.3 / 2.3     | %                 | ISO 527-1/-2   |
| Charpy notched impact strength (+23°C)    | 15 / -        | kJ/m <sup>2</sup> | ISO 179/1eA    |
| <b>Thermal properties</b>                 |               |                   |                |
| Melting temperature (10°C/min)            | 315 / *       | °C                | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 290 / *       | °C                | ISO 75-1/-2    |
| <b>Other properties</b>                   |               |                   |                |
| Density                                   | 1620 / -      | kg/m <sup>3</sup> | ISO 1183       |