

Mechanical properties of TAROFORCE LGF-PP standard grades

| <i>Properties</i> | <i>Method</i> | <i>Units</i> | <i>TAROFORCE PP 20 – 12</i> | <i>TAROFORCE PP 30 – 12</i> | <i>TAROFORCE PP 40 – 12</i> | <i>TAROFORCE PP 50 – 12</i> | <i>TAROFORCE PP 60 - 12</i> |
|---------------------------------------|------------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | | | PP 20% LGF | PP 30% LGF | PP 40% LGF | PP 50% LGF | PP 60% LGF |
| <i>Density</i> | | g/cm ³ | 1,03 | 1,12 | 1,22 | 1,33 | 1,48 |
| <i>Tensile Modulus</i> | ISO 527 speed 1 mm/min | MPa | 5200 | 7000 | 9500 | 12500 | 14500 |
| <i>Tensile Break strength</i> | ISO 527 speed 5 mm/min | MPa | 85 | 100 | 115 | 130 | 140 |
| <i>Elongation at Break</i> | ISO 527 speed 5 mm/min | % | 2,8 | 2,5 | 2,0 | 1,8 | 1,5 |
| <i>Flexural Modulus</i> | ISO 178 speed 1 mm/min | MPa | 5000 | 6700 | 8600 | 12000 | 13500 |
| <i>Flexural Break strength</i> | ISO 178 speed 1 mm/min | MPa | 120 | 155 | 170 | 195 | 200 |
| <i>Charpy Impact Strength</i> | ISO 179-1eU | kJ/m ² | 50 | 55 | 60 | 60 | 60 |
| <i>Charpy notched Impact Strength</i> | ISO 179-1eA | kJ/m ² | 16 | 18 | 20 | 25 | 25 |
| <i>Vicat (VST/B/50)</i> | ISO 306 | °C | 135 | 136 | 138 | 140 | 142 |
| <i>HDT A (1,8 MPa)</i> | ISO 75 A | °C | 130. | 148 | 150 | 152 | 154 |