# polykemi

# SCANAMID 6

## B12^ F50

### Glass fibre-reinforced

| Property | Value | Unit | Standard |
|---|---|---|---|
| "^" = additive# 0-9, no effect on material prop. | | | |
| Density | 1,56 | g/cm³ | ISO 1183 |
| Viscosity | | Pas | |
| Flexural modulus at +23°C | 14000 (12500) | MPa | ISO 178 |
| Tensile modulus at +23°C | 16000 (12700) | MPa | ISO 527-2 |
| Maximum flexural strength | 290 (270) | MPa | ISO 178 |
| Maximum tensile strength | 210 (150) | MPa | ISO 527-2 |
| Elongation at break | 2 (2,5) | % | ISO 527-2 |
| Elongation at yield | | % | ISO 527-2 |
| Impact strength | | | |
| Notched Charpy at +23°C | 13 (16) | kJ/m² | ISO 179 |
| Notched Charpy at -20°C | 12 | kJ/m² | ISO 179 |
| Notched Charpy at -30°C | 8,5 | kJ/m² | ISO 179 |
| Unnotched Charpy at +23°C | NB | kJ/m² | ISO 179 |
| Unnotched Charpy at -20°C | | kJ/m² | ISO 179 |
| Filler content | 50 | ±2% | ISO 3451 |
| Heat Distortion Temperature | | | |
| HDT 120°C/h at 455kPa (B) | 220 | °C | ISO 75/1 |
| HDT 120°C/h at 1820kPa (A) | 215 | °C | ISO 75/1 |
| Softening temperature | | | |
| Vicat 50°/h at 9,81N (A) | | °C | ISO 306 |
| Vicat 50°C/h at 49,05N (B) | >200 | °C | ISO 306 |
| Flammability | | | |
| GWT at 2 mm | 650 | °C | IEC 695-2-1 |
| UL94 at 1.6 mm | HB | | UL94 |
| Mould shrinkage (with flow) | 0,2 | % | ISO 294-4 |
| Mould shrinkage (across flow) | 0,8 | % | ISO 294-4 |
| Hardness Shore D (15 s) | 81 | Shore D | D2240 |

Values within (): 23°C, 50% RH, 24h

Version 3          2008-09-19