

TECNOPRENE® AK6HI NAT001 - PP

Description

Polypropylene, homopolymer. 30% glass fiber reinforced, chemically coupled. High impact resistance.

| Physical properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density | 1130 | kg/m ³ | ISO 1183 |
| Melt flow rate, MFR | 2.8 | g/10min | ISO 1133 |
| MFR temperature | 230 | °C | ISO 1133 |
| MFR load | 2.16 | kg | ISO 1133 |

| Mechanical properties | Value | Unit | Test Standard |
|--------------------------------------|-------|-------------------|---------------|
| Tensile modulus | 6700 | MPa | ISO 527-2/1A |
| Tensile stress at break, 5mm/min | 90 | MPa | ISO 527-2/1A |
| Tensile strain at break, 5mm/min | 3.5 | % | ISO 527-2/1A |
| Flexural modulus, 23°C | 6200 | MPa | ISO 178 |
| Flexural strength, 23°C | 142 | MPa | ISO 178 |
| Charpy impact strength, 23°C | 55 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 12 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|----------------------------------|-------|-------|---------------|
| DTUL at 1.8 MPa | 147 | °C | ISO 75-1, -2 |
| Flammability @1.6mm nom. thickn. | HB | class | UL 94 |

Typical injection moulding processing conditions

| Pre Drying | Value | Unit | Test Standard |
|--------------------|-----------|------|---------------|
| Drying time | 2 - 3 | h | - |
| Drying temperature | 80 - 100 | °C | - |
| Temperature | Value | Unit | Test Standard |
| Zone1 temperature | 200 - 220 | °C | - |
| Zone2 temperature | 220 - 240 | °C | - |
| Zone3 temperature | 240 - 260 | °C | - |
| Mold temperature | 50 - 80 | °C | - |

Other text information

Longer pre-drying times/storage

This product should be stored in a covered facility and kept away from moisture and heat.