

TECNOPRENE® FK8HC - PP

Experimental Grade. Please contact your Celanese representative for further information.

Description

High crystallinity polypropylene homopolymer, glass fiber reinforced, chemically coupled, .

| Physical properties | Value | Unit | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density | 1250 | kg/m ³ | ISO 1183 |
| Melt flow rate, MFR | 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 | 10300 | MPa | ISO 527-2/1A |
| Tensile stress at break, 5mm/min | 102 | MPa | ISO 527-2/1A |
| Tensile strain at break, 5mm/min | 2.8 | % | ISO 527-2/1A |
| Flexural modulus, 23°C | 9800 | MPa | ISO 178 |
| Flexural strength, 23°C | 175 | MPa | ISO 178 |
| Charpy impact strength, 23°C | 55 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 9 | kJ/m ² | ISO 179/1eA |
| Izod impact notched, 23°C | 10 | kJ/m ² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|---------------|
| DTUL at 1.8 MPa | 152 | °C | ISO 75-1, -2 |
| Vicat softening temperature, 50°C/h 50N | 145 | °C | ISO 306 |
| 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 | - |
| Nozzle 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.

Characteristics

| Product Categories | Processing |
|--------------------|-------------------|
| Glass reinforced | Injection molding |