

KEPITAL® F10-01

A high-viscosity grade for extrusion of round bars, sheets and tubes

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- Suitable for extrusion molding of thick-walled, void-free, and sink mark-reduced parts

Rheological properties

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| Moulding shrinkage range, parallel | 2.0 % | ISO 294-4, 2577 |
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Typical mechanical properties

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| Tensile Modulus | 2500 MPa | ISO 527-1/-2 |
| Yield stress, 50mm/min | 63 MPa | ISO 527-1/-2 |
| Yield strain, 50mm/min | 10 % | ISO 527-1/-2 |
| Nominal strain at break | 32 % | ISO 527-1/-2 |
| Flexural Modulus | 2350 MPa | ISO 178 |
| Flexural Strength | 83 MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 8 kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 6.5 kJ/m ² | ISO 179/1eA |

Thermal properties

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|---|-----------|----------------|
| Melting temperature, 10°C/min | 165 °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa | 96 °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 120 E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 120 E-6/K | ISO 11359-1/-2 |

Flammability

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| Burning Behav. at thickness h | HB class | UL 94 |
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Electrical properties

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| Volume resistivity | >1E14 Ohm.m | IEC 62631-3-1 |
| Surface resistivity | >1E16 Ohm | IEC 62631-3-2 |
| Electric strength | 19 kV/mm | IEC 60243-1 |

Other properties

| | | |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.2 % | Sim. to ISO 62 |
| Water absorption, 2mm | 0.2 % | Sim. to ISO 62 |
| Density | 1410 kg/m ³ | ISO 1183 |