

KEPITAL[®] FM2020

A MoS2 modified wear resistant grade for general injection molding

KEPITAL FM2020 is a MoS2 modified wear resistance for general injection molding. It is suitable for parts requiring strong friction and wear resistance and high stiffness.

Rheological properties

| Moulding shrinkage, parallel | 2.0 | % | ISO 294-4, 2577 |
|--------------------------------------|-------|-------------------|-----------------|
| Typical mechanical properties | | | |
| Yield stress, 50mm/min | 65 | MPa | ISO 527-1/-2 |
| Yield strain, 50mm/min | 9.5 | % | ISO 527-1/-2 |
| Nominal strain at break | 20 | % | ISO 527-1/-2 |
| Flexural Modulus | 2690 | MPa | ISO 178 |
| Flexural Strength | 90 | MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 5.5 | kJ/m² | ISO 179/1eA |
| Thermal properties | | | |
| Melting temperature, 10°C/min | 165 | °C | ISO 11357-1/-3 |
| Electrical properties | | | |
| Volume resistivity | >1F12 | Ohm.m | IEC 62631-3-1 |
| Surface resistivity | >1E16 | • | IEC 62631-3-2 |
| Other properties | | | |
| Humidity absorption, 2mm | 0.2 | % | Sim. to ISO 62 |
| Density | - | kg/m ³ | ISO 1183 |
| | | 0 | |

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