

KEPITAL® TX-21 LOF

POM, polymer-modified wear-resistance, medium-viscosity grade for general injection molding, low emission

- A polymer-modified wear-resistance grade (medium-viscosity) for general injection molding.
- Suitable for applications requiring reduced wear noise and a strong friction and wear resistance without sacrificing mechanical properties and a low-emission grade featuring improved heat stability.

Product information

Part Marking Code	> POM <	ISO 11469
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Rheological properties

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

Tensile Modulus	2500 MPa	ISO 527-1/-2
Yield stress, 50mm/min	57 MPa	ISO 527-1/-2
Yield strain, 50mm/min	10 %	ISO 527-1/-2
Nominal strain at break	33 %	ISO 527-1/-2
Flexural Modulus	2350 MPa	ISO 178
Flexural Strength	79 MPa	ISO 178
Charpy notched impact strength, 23°C	7.5 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	5 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	90 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	130 E-6/K	ISO 11359-1/-2

Electrical properties

Volume resistivity	>1E12 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
Density	1390 kg/m ³	ISO 1183