Celanese
The chemistry inside innovation™

KEPITAL® TX-31 LOF

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

Product information

Part Marking Code	> POM <		ISO 11469

Rheological properties

Moulding shrinkage, parallel	2.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2550	MPa	ISO 527-1/-2
Yield stress, 50mm/min	56	MPa	ISO 527-1/-2
Yield strain, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	32	%	ISO 527-1/-2
Flexural Modulus	2450	MPa	ISO 178
Flexural Strength	81	MPa	ISO 178
Charpy notched impact strength, 23°C	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5	kJ/m²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	89	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	120	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/m³	ISO 1183

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