

# 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 properties and a low-emission grade featuring improved heat stability.

## Product information

Part Marking Code	> POM <	ISO 11469
-------------------	---------	-----------

## Rheological properties

Moulding shrinkage range, 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/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5 kJ/m <sup>2</sup>	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/m <sup>3</sup>	ISO 1183