

## KEPITAL<sup>®</sup> TX-31

A polymer modified wear resistance, low viscosity grade for general injection molding. 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.

## 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		%	ISO 527-1/-2
Flexural Modulus		MPa	ISO 178
Flexural Strength		MPa	ISO 178
Charpy notched impact strength, 23°C		kJ/m <sup>2</sup>	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	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
Other properties			
Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Density		kg/m <sup>3</sup>	ISO 1183
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