Celanese
The chemistry inside innovation™

KEPITAL® TX-21

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

Rheological properties

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

Typical mechanical properties

Tensile Modulus	2500	MPa	ISO 527-1/-2
Yield stress, 50mm/min	58	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/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	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	1390	kg/m³	ISO 1183

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