

KEPITAL® FR-20H

hot diesel, medium-low viscosity grade

KEPITAL® FR-20H is a hot diesel medium-low viscosity grade providing excellent resistance to sour or hot diesel not sacrificing acetal's own mechanical properties. KEPITAL® FR-20H has a dark yellow color.

Rheological properties

Moulding shrinkage range, parallel	1.6 %	ISO 294-4, 2577
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Typical mechanical properties

Tensile Modulus	2600 MPa	ISO 527-1/-2
Yield stress, 50mm/min	60 MPa	ISO 527-1/-2
Yield strain, 50mm/min	8.5 %	ISO 527-1/-2
Nominal strain at break	31 %	ISO 527-1/-2
Flexural Modulus	2500 MPa	ISO 178
Flexural Strength	80 MPa	ISO 178
Charpy notched impact strength, 23°C	7 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.402	

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

Electrical properties

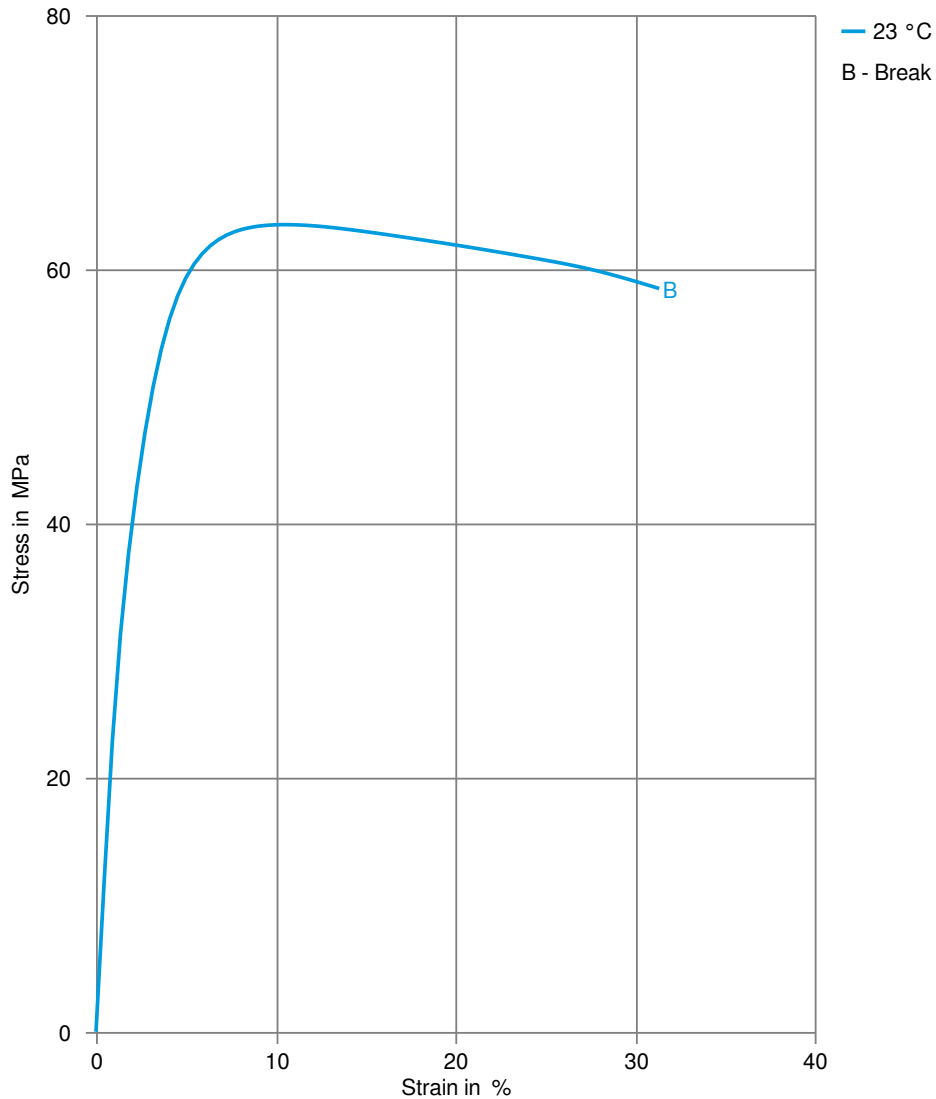
Electric strength	19 kV/mm	IEC 60243-1
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Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Density	1410 kg/m ³	ISO 1183

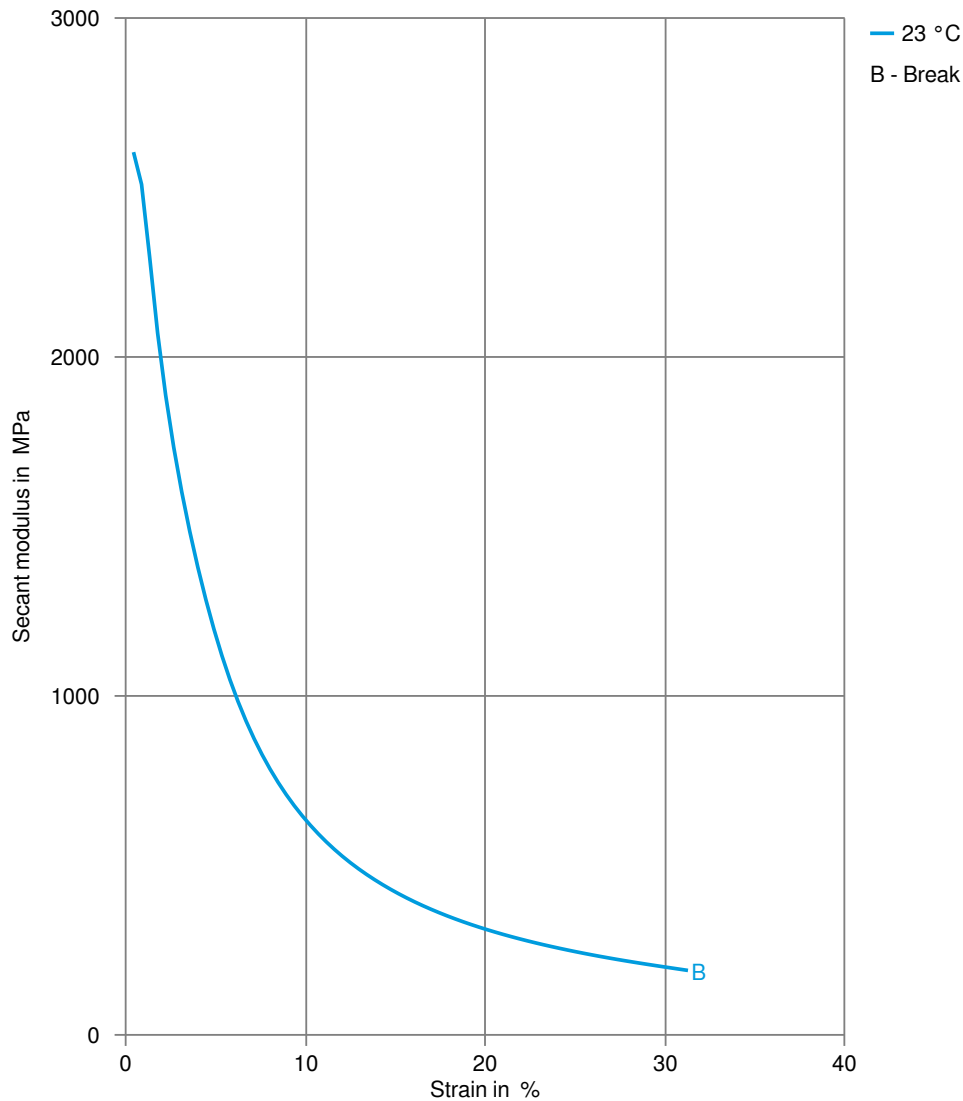
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Stress-strain



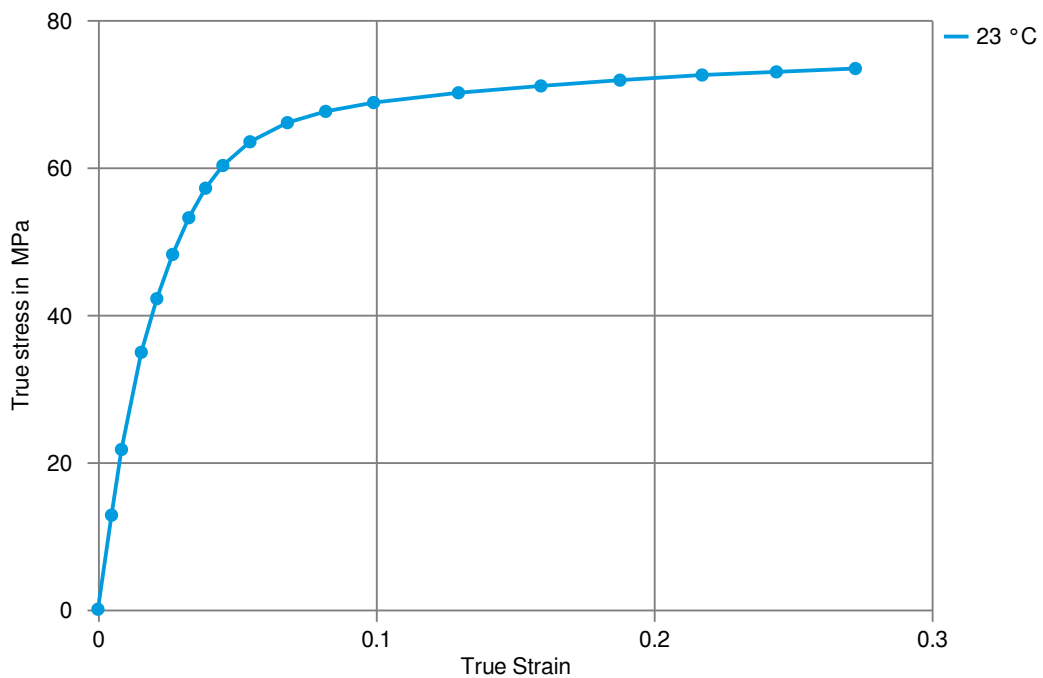
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Secant modulus-strain



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True stress-strain



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Other Approvals

Other Approvals

OEM	Specification	Additional Information
GM	GMW18026P-POM	Natural & Black
Ford	WSS-M98P14-A7	ASN 10044
Ford	WSS-M98P14-A3	ASN 9955
Stellantis - PSA Group	B62 0020	

Chemical Media Resistance

Standard Fuels

- ✓ ISO 1817 Liquid 1 - E5, 60°C
- ✓ ISO 1817 Liquid 2 - M15E4, 60°C
- ✓ ISO 1817 Liquid 3 - M3E7, 60°C
- ✓ ISO 1817 Liquid 4 - M15, 60°C
- ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C), 23°C
- ✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4), 23°C

Symbols used:

- ✓ possibly resistant
Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).
- ✗ not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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Page: 5 of 5

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