

# KEPITAL® F20-52 LOF

A UV-stabilized (medium-viscosity) grade for general injection molding; low emission

- A UV-stabilized (medium-viscosity) grade for general injection molding
- A low-emission grade featuring improved heat stability
- Developed for applications in automotive interiors

## Rheological properties

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

## Typical mechanical properties

|                         |          |              |
|-------------------------|----------|--------------|
| Tensile Modulus         | 2600 MPa | ISO 527-1/-2 |
| Yield stress, 50mm/min  | 62 MPa   | ISO 527-1/-2 |
| Yield strain, 50mm/min  | 10 %     | ISO 527-1/-2 |
| Nominal strain at break | 35 %     | ISO 527-1/-2 |
| Poisson's ratio         | 0.423    |              |

## Thermal properties

|   |           |                |
|---|-----------|----------------|
| Melting temperature, 10°C/min               | 165 °C    | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa     | 92 °C     | ISO 75-1/-2    |
| Coeff. of linear therm. expansion, parallel | 130 E-6/K | ISO 11359-1/-2 |

## Electrical properties

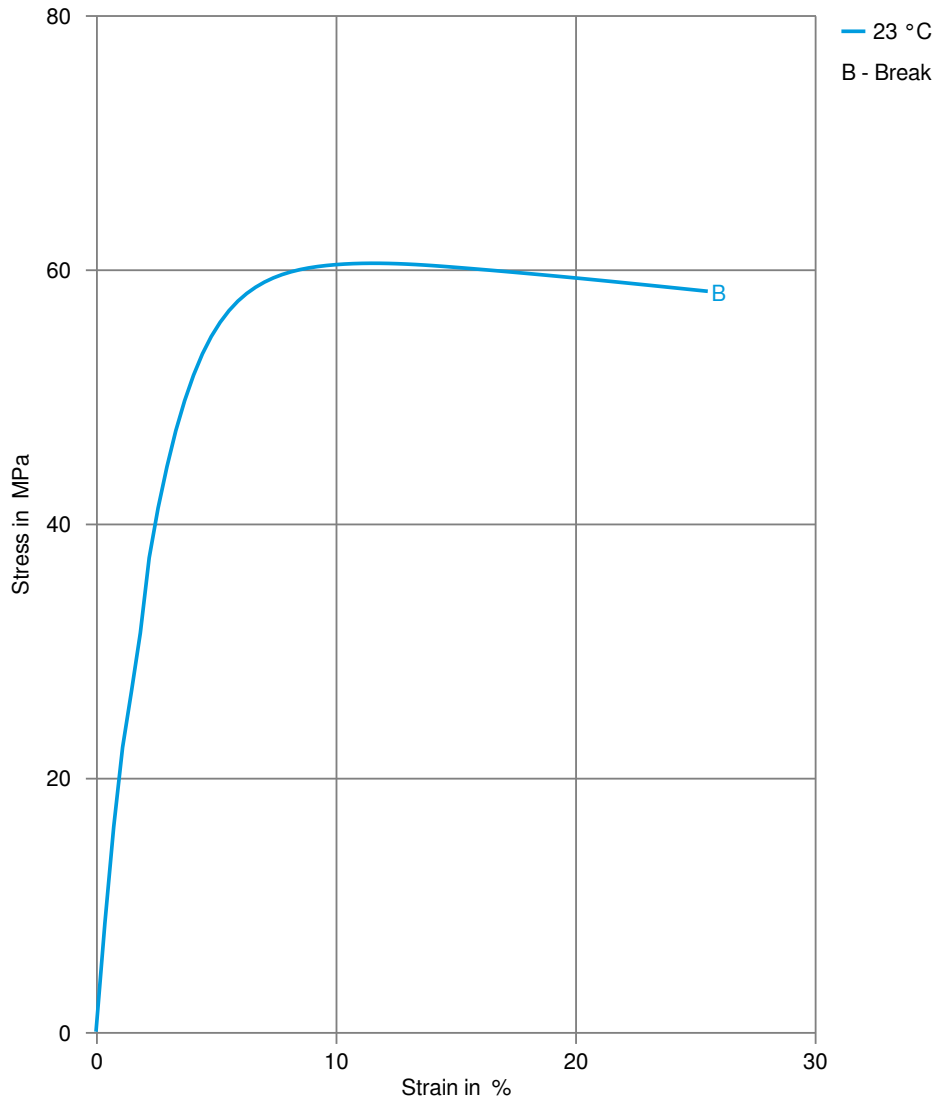
|                     |           |               |
|---------------------|-----------|---------------|
| Surface resistivity | >1E15 Ohm | IEC 62631-3-2 |
| Electric strength   | 19 kV/mm  | IEC 60243-1   |

## Other properties

|                          |                        |                |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.2 %                  | Sim. to ISO 62 |
| Density                  | 1410 kg/m <sup>3</sup> | ISO 1183       |

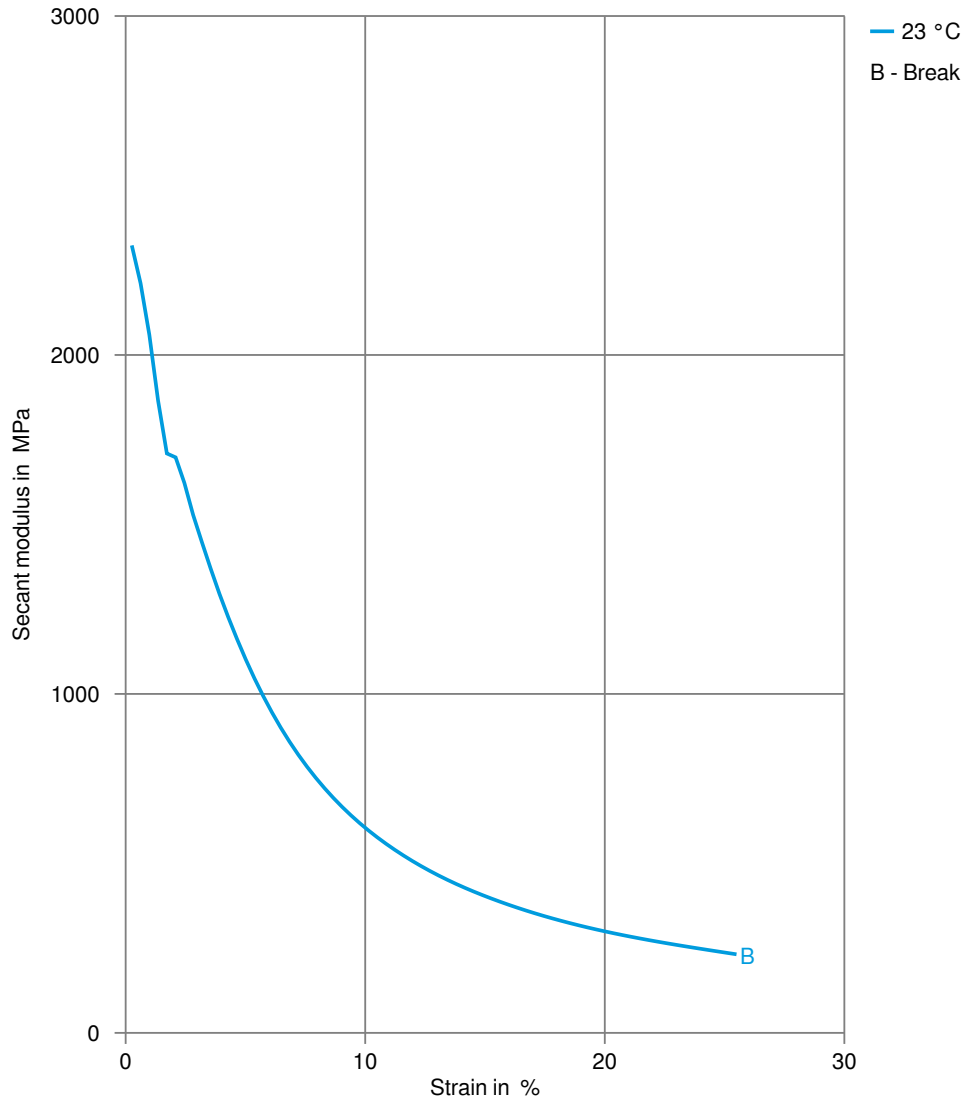
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## Stress-strain



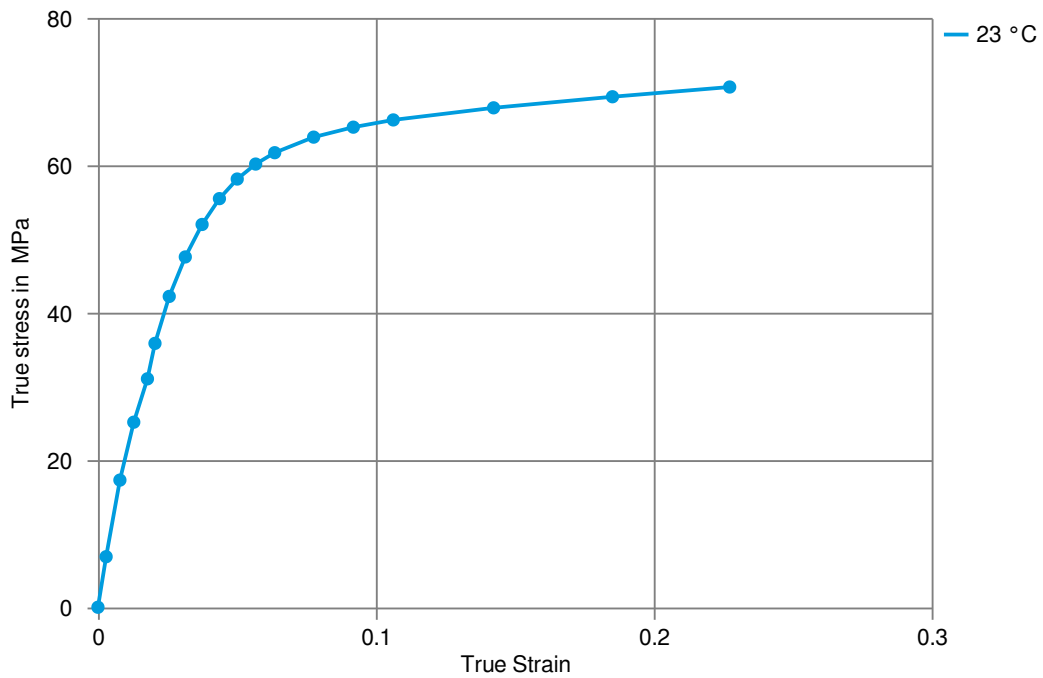
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## Secant modulus-strain



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## True stress-strain



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## Other Approvals

Other Approvals

|     |               |
|-----|---------------|
| OEM | Specification |
| GM  | GMW22P-POM-C2 |