

# KEPITAL® TX-11H LOF

POM, friction and wear-resistance, medium-high viscosity grade for general injection molding, low emission

- A friction and wear-resistance (medium-high viscosity) grade for general injection molding.
- Suitable for uses requiring reduced wear noise and a good friction and wear resistance without sacrificing mechanical properties.
- 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                       | 2600 MPa              | ISO 527-1/-2 |
| Yield stress, 50mm/min                | 64 MPa                | ISO 527-1/-2 |
| Yield strain, 50mm/min                | 10 %                  | ISO 527-1/-2 |
| Nominal strain at break               | 40 %                  | ISO 527-1/-2 |
| Flexural Modulus                      | 2550 MPa              | ISO 178      |
| Flexural Strength                     | 86 MPa                | ISO 178      |
| Charpy notched impact strength, 23°C  | 9.5 kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy notched impact strength, -30°C | 7 kJ/m <sup>2</sup>   | ISO 179/1eA  |

## Thermal properties

|   |           |                |
|---|-----------|----------------|
| Melting temperature, 10°C/min               | 170 °C    | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa     | 97 °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                  | 1400 kg/m <sup>3</sup> | ISO 1183       |