

# KEPITAL® TE-21 LOF

POM, toughened, medium-viscosity grade, low emission

KEPITAL® TE-21 LOF is a toughened, medium-viscosity grade for general injection molding. Suitable for applications requiring high impact resistance and toughness. A low-emission grade featuring improved heat stability.

## Product information

|                   |            |           |
|-------------------|------------|-----------|
| Part Marking Code | > POM-HI < | ISO 11469 |
|-------------------|------------|-----------|

## Rheological properties

|                                    |       |                 |
|------------------------------------|-------|-----------------|
| Moulding shrinkage range, parallel | 1.9 % | ISO 294-4, 2577 |
|------------------------------------|-------|-----------------|

## Typical mechanical properties

|                                      |          |              |
|--------------------------------------|----------|--------------|
| Yield stress, 50mm/min               | 58 MPa   | ISO 527-1/-2 |
| Yield strain, 50mm/min               | 8.5 %    | ISO 527-1/-2 |
| Nominal strain at break              | 32 %     | ISO 527-1/-2 |
| Flexural Modulus                     | 2250 MPa | ISO 178      |
| Flexural Strength                    | 76 MPa   | ISO 178      |
| Charpy notched impact strength, 23°C | 9 kJ/m²  | ISO 179/1eA  |
| Poisson's ratio                      | 0.39     |              |

## Thermal properties

|                                             |           |                |
|---------------------------------------------|-----------|----------------|
| Melting temperature, 10°C/min               | 165 °C    | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa     | 84 °C     | ISO 75-1/-2    |
| Coeff. of linear therm. expansion, parallel | 130 E-6/K | ISO 11359-1/-2 |

## Flammability

|                               |          |       |
|-------------------------------|----------|-------|
| Burning Behav. at thickness h | HB class | UL 94 |
|-------------------------------|----------|-------|

## Electrical properties

|                     |            |               |
|---------------------|------------|---------------|
| Volume resistivity  | 1E12 Ohm.m | IEC 62631-3-1 |
| Surface resistivity | 1E16 Ohm   | IEC 62631-3-2 |

## Other properties

|                          |            |                |
|--------------------------|------------|----------------|
| Humidity absorption, 2mm | 0.22 %     | Sim. to ISO 62 |
| Density                  | 1390 kg/m³ | ISO 1183       |

