

# KEPITAL® FG2025K LOF

POM, 25% glass fiber-reinforced grade, low emission

KEPITAL® FG2025K LOF is a 25% glass fiber-reinforced grade for general injection molding.

Suitable for parts requiring extremely high strength, high stiffness, high deflection temperature, and excellent creep resistance.

Low emission grade featuring heat stability.

## Product information

|                   |              |           |
|-------------------|--------------|-----------|
| Part Marking Code | > POM-GF25 < | ISO 11469 |
|-------------------|--------------|-----------|

## Rheological properties

|                                    |       |                 |
|------------------------------------|-------|-----------------|
| Moulding shrinkage range, parallel | 1.0 % | ISO 294-4, 2577 |
|------------------------------------|-------|-----------------|

## Typical mechanical properties

|                                      |                       |              |
|--------------------------------------|-----------------------|--------------|
| Stress at break, 5mm/min             | 110 MPa               | ISO 527-1/-2 |
| Strain at break, 5mm/min             | 3.1 %                 | ISO 527-1/-2 |
| Flexural Modulus                     | 4750 MPa              | ISO 178      |
| Flexural Strength                    | 160 MPa               | ISO 178      |
| Charpy notched impact strength, 23°C | 6.3 kJ/m <sup>2</sup> | ISO 179/1eA  |

## Thermal properties

|                                             |          |                |
|---------------------------------------------|----------|----------------|
| Melting temperature, 10°C/min               | 165 °C   | ISO 11357-1/-3 |
| Coeff. of linear therm. expansion, parallel | 60 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 | 0.2 %                  | Sim. to ISO 62 |
| Density                  | 1470 kg/m <sup>3</sup> | ISO 1183       |

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