

# KEPITAL® F30-03

unfilled, low viscosity grade

- A stiffness-improved(low-viscosity) grade for general injection molding.
- Features greater stiffness compared to general POM copolymer.

## Rheological properties

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

## Typical mechanical properties

|                                       |                       |              |
|---------------------------------------|-----------------------|--------------|
| Tensile Modulus                       | 2850 MPa              | ISO 527-1/-2 |
| Yield stress, 50mm/min                | 65 MPa                | ISO 527-1/-2 |
| Yield strain, 50mm/min                | 8 %                   | ISO 527-1/-2 |
| Nominal strain at break               | 25 %                  | ISO 527-1/-2 |
| Flexural Modulus                      | 2700 MPa              | ISO 178      |
| Flexural Strength                     | 90 MPa                | ISO 178      |
| Charpy notched impact strength, 23°C  | 5.5 kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy notched impact strength, -30°C | 5 kJ/m <sup>2</sup>   | ISO 179/1eA  |
| Poisson's ratio                       | 0.39                  |              |

## Thermal properties

|                                             |           |                |
|---------------------------------------------|-----------|----------------|
| Melting temperature, 10°C/min               | 168 °C    | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa     | 101 °C    | ISO 75-1/-2    |
| Coeff. of linear therm. expansion, parallel | 120 E-6/K | ISO 11359-1/-2 |

## Electrical properties

|                     |           |               |
|---------------------|-----------|---------------|
| 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                  | 1410 kg/m <sup>3</sup> | ISO 1183       |

## Other Approvals

Other Approvals

| OEM | Specification | Additional Information |
|-----|---------------|------------------------|
| GM  | GMP.POM.021   | Natural & Black        |