

# KEPITAL® FL2020

A 20% PTFE powder filled grade for general injection molding

KEPITAL FL2020 is a 20% PTFE powder filled grade. It is a medium-low viscosity grade for general injection molding and suitable for parts requiring low wear and friction.

## Rheological properties

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

## Typical mechanical properties

|                                      |                     |              |
|--------------------------------------|---------------------|--------------|
| Yield stress, 50mm/min               | 45 MPa              | ISO 527-1/-2 |
| Yield strain, 50mm/min               | 10 %                | ISO 527-1/-2 |
| Nominal strain at break              | 15 %                | ISO 527-1/-2 |
| Flexural Modulus                     | 2150 MPa            | ISO 178      |
| Flexural Strength                    | 70 MPa              | ISO 178      |
| Charpy notched impact strength, 23°C | 3 kJ/m <sup>2</sup> | ISO 179/1eA  |

## Thermal properties

|                               |        |                |
|-------------------------------|--------|----------------|
| Melting temperature, 10°C/min | 165 °C | ISO 11357-1/-3 |
|-------------------------------|--------|----------------|

## Electrical properties

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

## Other properties

|                          |                        |                |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.18 %                 | Sim. to ISO 62 |
| Density                  | 1510 kg/m <sup>3</sup> | ISO 1183       |

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