

# KEPITAL® F40-03 Colored

An extremely low-viscosity grade for general injection molding (colored)

KEPITAL® F40-03 Colored is a standard unfilled (extremely low-viscosity) grade for general injection molding (colored).

Suitable for multi-cavity molds and thin-walled precision parts

## Rheological properties

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

## Typical mechanical properties

|                                      |                       |              |
|--------------------------------------|-----------------------|--------------|
| Yield stress, 50mm/min               | 65 MPa                | ISO 527-1/-2 |
| Yield strain, 50mm/min               | 7 %                   | ISO 527-1/-2 |
| Nominal strain at break              | 20 %                  | ISO 527-1/-2 |
| Flexural Modulus                     | 2750 MPa              | ISO 178      |
| Flexural Strength                    | 93 MPa                | ISO 178      |
| Charpy notched impact strength, 23°C | 3.5 kJ/m <sup>2</sup> | ISO 179/1eA  |

## Thermal properties

|                                         |        |                |
|-----------------------------------------|--------|----------------|
| Melting temperature, 10°C/min           | 165 °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa | 101 °C | ISO 75-1/-2    |

## Flammability

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

## Other properties

|                          |                        |                |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.2 %                  | Sim. to ISO 62 |
| Density                  | 1410 kg/m <sup>3</sup> | ISO 1183       |

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