

KEPITAL® TC3020

20% talcum-filled grade

KEPITAL® TC3020 is a Polyoxymethylene (POM) grade reinforced with 20% talcum. Offers excellent thermal stability and stronger resistance to alkalis than acetal homopolymer. Possesses wide range of working temperature and high tolerance to organic chemicals. Exhibits fatigue-, creep resistance and better flow enabling high speed production. Shows resistance to friction and wear. Is suitable for processing by injection molding. Used in electrical & electronics, automotive and industrial parts. Recommended for parts requiring dimensional stability and low stress deformation.

Rheological properties

| | | |
|------------------------------------|-------|-----------------|
| Moulding shrinkage range, parallel | 1.4 % | ISO 294-4, 2577 |
|------------------------------------|-------|-----------------|

Typical mechanical properties

| | | |
|--------------------------------------|-----------------------|--------------|
| Stress at break, 5mm/min | 67 MPa | ISO 527-1/-2 |
| Nominal strain at break | 5.6 % | ISO 527-1/-2 |
| Flexural Modulus | 5290 MPa | ISO 178 |
| Flexural Strength | 112 MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 3.8 kJ/m ² | ISO 179/1eA |
| Poisson's ratio | 0.366 | |

Thermal properties

| | | |
|---|--------|----------------|
| Melting temperature, 10°C/min | 165 °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.8 MPa | 122 °C | ISO 75-1/-2 |

Other properties

| | | |
|--------------------------|------------------------|----------------|
| Humidity absorption, 2mm | 0.2 % | Sim. to ISO 62 |
| Density | 1560 kg/m ³ | ISO 1183 |

Characteristics

| | |
|-----------|----------------|
| Additives | Mineral Filler |
|-----------|----------------|