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KEPITAL® FA-20

A conductive grade reinforced with carbon fiber

KEPITAL® FA-20 is a conductive Polyoxymethylene (POM) grade reinforced with carbon fiber. Offers excellent thermal stability and stronger resistance to alkalis than acetal homopolymer. Possesses wide range of working temperature, high stiffness, high creep strength and high tolerance to organic chemicals. Exhibits fatigue-, creep resistance, long term dimensional stability 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.

Rheological properties

| Moulding shrinkage range, parallel | 0.9 % | ISO 294-4, 2577 |
|------------------------------------|-------|-----------------|
|------------------------------------|-------|-----------------|

Typical mechanical properties

| Stress at break, 5mm/min | 100 MPa | ISO 527-1/-2 |
|--------------------------------------|----------|--------------|
| Nominal strain at break | 2 % | ISO 527-1/-2 |
| Flexural Modulus | 7150 MPa | ISO 178 |
| Flexural Strength | 135 MPa | ISO 178 |
| Charpy notched impact strength, 23°C | 4 kJ/m² | ISO 179/1eA |
| Poisson's ratio | 0.388 | |

Thermal properties

| Melting temperature, 10°C/min | 165 °C | ISO 11357-1/-3 |
|---|--------|----------------|
| Temp. of deflection under load, 1.8 MPa | 160 °C | ISO 75-1/-2 |

Electrical properties

Surface resistivity 1000 Ohm IEC 62631-3-2

Other properties

1430 kg/m³ ISO 1183 Density

Processing Texts

It is recommend to dry material at 80°C ~ 90°C (176°F ~ 194°F) for 3 h ~ 4 h if Pre-drying

necessary.

Other Approvals

Other Approvals

| OEM | Specification | Additional Information |
|------|------------------|------------------------|
| GM | GMW16278P-POM-C3 | |
| GM | GMP.POM.041 | |
| Ford | WSS-M98P14-A3 | ASN 9951 |





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Chemical Media Resistance

Standard Fuels

- ✓ ISO 1817 Liquid 1 E5, 60°C
- ✓ ISO 1817 Liquid 2 M15E4, 60°C
- ✓ ISO 1817 Liquid 3 M3E7, 60°C
- ✓ ISO 1817 Liquid 4 M15, 60°C
- ✓ Standard fuel without alcohol (pref. ISO 1817 Liquid C), 23°C
- ✓ Standard fuel with alcohol (pref. ISO 1817 Liquid 4), 23°C

Symbols used:

✓ possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).