

Multiplast POM-C CF

Multiplast POM-C CF is Multiplast POM-C with a conductive carbon filling. Multiplast POM-C CF has:

- Dissipation of electrostatic charging
- Good toughness
- Good strength
- Good sliding properties

| Properties | Units | | |
|---------------------------------------|---------------------|----------------------------------|------|
| Modulus of elasticity (tensile test) | MPa | 1800 | |
| Tensile strength | MPa | 42 | |
| Tensile strength at yield | MPa | 42 | |
| Elongation at yield | % | 11 | |
| Elongation at break | % | 11 | |
| Modulus of elasticity (flexural test) | MPa | 1500 | |
| Flexural strength | MPa | 56 | |
| Compression modulus | MPa | 1500 | |
| Compressive strength (1% / 2%) | MPa | 16 / 25 | |
| Impact strength (Charpy) | kJ / m ² | 74 | |
| Notched impact strength (Charpy) | kJ / m ² | - | |
| Ball indentation hardness | MPa | 96 | |
| Glass transition temperature | °C | -60 | |
| Melting temperature | °C | 169 | |
| Service temperature | short term | °C | 140 |
| | long term | °C | 100 |
| Thermal expansion | 23 °C – 60 °C | 10 ⁻⁵ K ⁻¹ | 13 |
| | 23 °C – 100 °C | 10 ⁻⁵ K ⁻¹ | 14 |
| Specific heat | J / (g x K) | | 1,3 |
| Thermal conductivity | W / m K | | 0,46 |

| Properties | Units | |
|--|---------------------------|--------------------|
| Specific surface resistance | Ω | 10 ⁴ |
| Specific volume resistance | $\Omega \times \text{cm}$ | 10 ⁵ |
| Dielectric strength | kV / mm | - |
| Resistance to tracking (CTI) | V | - |
| Water absorption 24 h / 96 h (@ 23 °C) | % | 0,05 / 0,2 |
| Resistance to hot water / bases | - | Limited resistance |
| Resistance to weathering | - | Limited resistance |
| Flammability | UL94 | HB |
| Density | g/cm ² | 1,41 |
| Colour | - | Black |

Availability:

| | | |
|-------------|-------------------------------------|--|
| Sheet: | Size: | 500 x 3000 mm |
| | Thickness: | 12 - 80 mm |
| Rod: | Length: | 3000 mm (shorter lengths are possible) |
| | Diameter: | 30 - 125 mm |
| Cut pieces: | On request | |
| Parts: | Finished parts according to drawing | |