# ALCOM POM 770/1 PTFE20

(POM+PTFE) MOCOM Compounds GmbH & Co. KG

| Product Texts | |
|---|---|
| Base Polymer | Polyoxymethylene Copolymer |
| Filler/Additive System | 20 % PTFE |
| Special Features | improved sliding / wear |
| Market Segment | Automotive,Machinery |
| Application Area | gear wheels, roller bearings |
| Typical Applications | functional components,bearings and sliding elements |

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Melt volume-flow rate, MVR | **6** | cm³/10min | ISO 1133 |
| Temperature | **190** | °C | - |
| Load | **2.16** | kg | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Tensile Modulus | **2400** | MPa | ISO 527 |
| [C] Yield stress | **48** | MPa | ISO 527 |
| [C] Yield strain | **9.4** | % | ISO 527 |
| [C] Charpy impact strength, +23°C | **50** | kJ/m² | ISO 179/1eU |
| [C] Charpy notched impact strength, +23°C | **4** | kJ/m² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| [C] Temp. of deflection under load, 1.80 MPa | **95** | °C | ISO 75-1/-2 |
| [C] Vicat softening temperature, B | **143** | °C | ISO 306 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| [C] Density | **1500** | kg/m³ | ISO 1183 |

[C]: CAMPUS

## Characteristics

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

## Other text information

**Injection molding**

| | |
|---|---|
| Pre-Drying Conditions | in a dry air (dessiccant) dryer 100-110 °C<br>for 2-3 h<br>in an air circulating dryer 100-110 °C<br>for 3-5 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 180-220 °C<br>mould temperature 60-120 °C |
| Storage | dry, protected from light<br>not above 30°C |