

ALCOM PBT 700/1.5 HR GF15 PTFE15

(PBT+PTFE)-GF15

MOCOM Compounds GmbH & Co. KG

Product Texts

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	15 % glass fibres, 15 % PTFE
Special Features	improved sliding / wear, high stiffness, good hydrolysis resistant, heat stabilised
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	7	cm ³ /10min	ISO 1133
Temperature	250	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties**Value****Unit****Test Standard****ISO Data**

^[C] Tensile Modulus	5450	MPa	ISO 527
^[C] Stress at break	80	MPa	ISO 527
^[C] Strain at break	3	%	ISO 527
^[C] Charpy impact strength, +23°C	55	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties**Value****Unit****Test Standard****ISO Data**

^[C] Temp. of deflection under load, 1.80 MPa	190	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	202	°C	ISO 306

[C]: CAMPUS

Other properties**Value****Unit****Test Standard**

^[C] Density	1490	kg/m ³	ISO 1183
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[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, Near East/Africa

Special Characteristics

Heat stabilized or stable to heat

Other text information**Injection molding**

Pre-Drying Conditions in a dry air (dessiccant) dryer 100-120 °C
 for 2-4 h
 in an air circulating dryer 100-120 °C
 for 4-8 h
 dependant on moisture content

Processing Injection Moulding melt temperature 250-270 °C
 mould temperature 80-120 °C

Storage dry, protected from light
 not above 30°C