

Technical Data Sheet



ALCOM PA66 910/1 GF30 PTFE15

MOCOM

Base Polymer	Polyamide 66
Filler/Additive System	30 % glass fibres, 15 % PTFE
Special Features	improved sliding / wear, heat stabilised
Market Segment	Automotive, Machinery
Application Area	various
Typical Applications	functional components, bearings and sliding elements
Approvals	GMW15702

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer
for 2-12 h
dependant on moisture content

Processing Injection Moulding melt temperature 280-300 °C
mould temperature 80-120 °C

Storage dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	9100 / 7000	MPa	ISO 178
Flexural Strength	240 / 200	MPa	ISO 178
Tensile Modulus	9500 / 7000	MPa	ISO 527
Tensile Strength at Break	160 / 125	MPa	ISO 527
Tensile Elongation at Break	3.2 / 5.2	%	ISO 527
Impact Strength (Charpy, 23°C)	80 / 80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	11 / 12	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	9 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	255 / *	°C	ISO 75-1/-2
DSC (Melt Point)	260 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1	%	ISO 294-4
Physical Properties			
Density	1490 / -	kg/m ³	ISO 1183
Tribologic Properties			
Coefficient of Sliding Friction μ (pv = 5*1 MPa*m/s)	0.4	-	ASTM G 137
Coefficient of Sliding Friction μ_H (pv = 5*1 MPa*m/s)	0.32	-	ASTM G 137
Specific Wear Rate ws (pv = 5*1 MPa*m/s)	1.08	E-6 mm ³ /Nm	ASTM G 137
Linear Wear Rate w (pv = 5*1 MPa*m/s)	19	$\mu\text{m/h}$	ASTM G 137
Flammability			
Flammability (0.75 mm)	HB / *	class	UL 94