Technical Data Sheet

ALCOM PA66 910/1 GF30 PTFE15

(Last update: 26.11.2024)

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	8500 / 7000	MPa	ISO 178
Flexural Strength	240 / 200	MPa	ISO 178
Tensile Modulus	9500 / 7000	MPa	ISO 527
Tensile Strength at Break	165 / 125	MPa	ISO 527
Tensile Elongation at Break	3.2 / 5.2	%	ISO 527
Impact Strength (Charpy, 23°C)	80 / 80	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12 / 12	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	9 / -	kJ/m²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	245 / *	°C	ISO 75-1/-2
DSC (Melt Point)	260 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1490 / -	kg/m³	ISO 1183
Tribologic Properties			
Coefficient of Sliding Friction µ (pv = 5*1 MPa*m/s)	0.4	-	ASTM G 137
Coefficient of Sliding Friction µH (pv = 5*1 MPa*m/s)	0.32	-	ASTM G 137

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Specific Wear Rate ws (pv = 5*1 MPa*m/s)	1.08	E-6 mm³/Nm	ASTM G 137
Linear Wear Rate w (pv = 5*1 MPa*m/s)	19	µm/h	ASTM G 137

Flammability

Flammability (0.75 mm)	HB / *	class	UL 94

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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