



ALCOM PA66 910/1 PTFE20

(Last update: 28.11.2024)



Base Polymer	Polyamide 66
Filler/Additive System	20 % PTFE
Special Features	improved sliding / wear
Market Segment	Automotive, Machinery
Application Area	injection moulded parts
Typical Applications	functional components, bearings and sliding elements

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	2700 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	85 / -	MPa	ISO 178
Tensile Modulus	2900 / -	MPa	ISO 527
Tensile Strength	70 / -	MPa	ISO 527
Tensile Elongation at Break	6.3 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	70 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	70 / *	°C	ISO 75-1/-2
DSC (Melt Point)	260 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1.8 - 2.2	%	ISO 294-4
Physical Properties			
Density	1250 / -	kg/m ³	ISO 1183

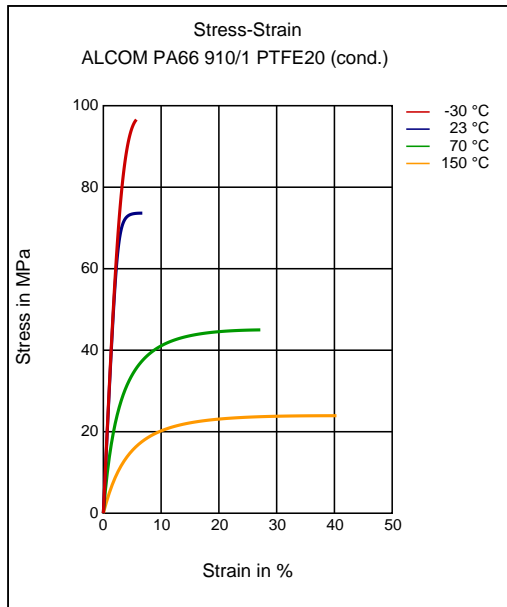
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Diagrams

Stress-Strain



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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