

Technical Data Sheet



ALCOM WP PA66 5020 PTFESI 15042

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

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

Processing Injection Moulding melt temperature 270-290 °C
mould temperature 40-80 °C

Storage dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2400 / -	MPa	ISO 178
Flexural Stress (3.5% Strain)	70 / -	MPa	ISO 178
Tensile Modulus	2600 / -	MPa	ISO 527
Tensile Strength	63 / -	MPa	ISO 527
Tensile Elongation at Break	15 / -	%	ISO 527
Impact Strength (Charpy, 23°C)	75 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85 / -	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)	2.5 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	65 / *	°C	ISO 75-1/-2
DSC (Melt Point)	264 / *	°C	ISO 11357
Physical Properties			
Density	1240 / -	kg/m ³	ISO 1183