

Technical Data Sheet



ALCOM LB PA6 2015 14041 WT1063-16

Base Polymer	Polyamide 6
Filler/Additive System	15 % glass fibres, 8 % special filler
Special Features	highly reflective, opaque, slip agent, heat stabilised
Market Segment	Automotive, electrical and electronic, Lighting
Application Area	lighting, interior decoration / finishing, light blocking components
Typical Applications	light guides, reflectors, handles

Pre-Drying Conditions	in a dry air (dessiccant) dryer <80 °C for 2-12 h max. moisture content <0,15 %
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-100 °C
Storage	dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4700 / -	MPa	ISO 178
Flexural Strength	150 / -	MPa	ISO 178
Tensile Modulus	6000 / -	MPa	ISO 527
Tensile Strength at Break	95 / -	MPa	ISO 527
Tensile Elongation at Break	2 / -	%	ISO 527
Impact Strength (Charpy, 23 °C)	30 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	30 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	3 / -	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)	197 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1310 / -	kg/m ³	ISO 1183
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	88	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.8	%	ISO 13468