

Technical Data Sheet

**ALCOM LB PA6 2015 14041 GF15 WT1100-14**

Base Polymer	Polyamide 6
Filler/Additive System	15 % glass fibres, special filler
Special Features	high stiffness, highly reflective, opaque
Market Segment	Automotive, Lighting
Application Area	lighting, light blocking components
Typical Applications	reflectors

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer 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	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	5000	MPa	ISO 178
Flexural Strength	150	MPa	ISO 178
Tensile Modulus	6000	MPa	ISO 527
Tensile Strength at Break	100	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	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	196	°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)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1290	kg/m ³	ISO 1183
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	85	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.9	%	ISO 13468