

## Technical Data Sheet



### ALCOM LB ECO PC 1000 17153 WT2687-16

Base Polymer	Polycarbonate
Special Features	impact modified,UV stabilised,contains recycled material
Market Segment	electrical and electronic,Lighting
Application Area	lighting,light blocking components,various
Typical Applications	light guides,lamps,sockets

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h 120 °C in an air circulating dryer for 4-12 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
<b>Mechanical Properties</b>			
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	61	MPa	ISO 527
Tensile Elongation at Yield	5.6	%	ISO 527
Tensile Elongation at Break	45	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	45	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	12	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	141	°C	ISO 306
<b>Rheological Properties</b>			
Melt Index (MVR)	15	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
<b>Physical Properties</b>			
Density	1250	kg/m <sup>3</sup>	ISO 1183
<b>Ecological Properties</b>			
Global Warming Potential (GWP)	0.76	kg CO <sub>2</sub> eq./kg	ISO 14040, 14044

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**Flammability**

Flammability (1.5 mm)	V-2	class	UL 94
Glow Wire (GWFI, 850°C, 2.0mm)	passed	-	DIN EN 60695

**Optical Properties**

Tristimulus Value Y10 of Reflection (d=2,0mm)	91	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	1	%	ISO 13468