

Technical Data Sheet



ALCOM LB ECO PP 4915 WT1030-21

Base Polymer	Polypropylene
Filler/Additive System	special filler, 15 % talcum
Special Features	highly reflective, opaque, contains recycled material
Market Segment	Automotive, Lighting
Application Area	lighting, light blocking components
Typical Applications	light guides, reflectors

Pre-Drying Conditions	in an air circulating dryer 80-100 °C for 2-3 h in a dry air (dessiccant) dryer 80-100 °C for 2-4 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 220-260 °C mould temperature 20-90 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress (3.5% Strain)	33	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	3.8	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	105	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	20	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	72	°C	ISO 306
HDT / A (1,8 MPa)	61	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	19	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.3 - 1.7	%	ISO 294-4
Shrinkage (lateral, 24h)	0.9 - 1.3	%	ISO 294-4

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Physical Properties

Density	1110	kg/m ³	ISO 1183
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Ecological Properties

Global Warming Potential (GWP)	1.15	kg CO ₂ eq./kg	ISO 14040, 14044
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Optical Properties

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