

Technical Data Sheet

**ALCOM PP 620/1 MR40 WT1034-05LB**

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	40 % special filler
Special Features	highly reflective, opaque
Market Segment	Automotive, Lighting
Application Area	lighting, light blocking components
Typical Applications	light guides, reflectors

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-100 °C for 2-3 h in an air circulating dryer 80-100 °C for 2-4 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 230-270 °C mould temperature 20-90 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3600	MPa	ISO 178
Flexural Stress (3.5% Strain)	50	MPa	ISO 178
Tensile Modulus	3200	MPa	ISO 527
Tensile Stress at Yield	29	MPa	ISO 527
Tensile Elongation at Yield	2.6	%	ISO 527
Tensile Elongation at Break	4	%	ISO 527
Impact Strength (Charpy, 23°C)	28	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	10	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	102	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	22	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.9 - 1.1	%	ISO 294-4
Shrinkage (lateral, 24h)	1 - 1.2	%	ISO 294-4

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Physical Properties

Density	1270	kg/m ³	ISO 1183
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	94	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.2	%	ISO 13468