

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

(Last update: 16.04.2019)

### MOCOM

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
<b>Mechanical Properties</b>			
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 <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	10	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
Vicat B50	102	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
<b>Rheological Properties</b>			
Melt Index (MVR)	22	cm <sup>3</sup> /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 <sup>3</sup>	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

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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