

ALCOM PP 620/1 WT1433-05LB

(Last update: 22.02.2024)

MOCOM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	8 % special filler, 30 % mineral
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	4500	MPa	ISO 178
Flexural Stress (3.5% Strain)	54	MPa	ISO 178
Tensile Modulus	3900	MPa	ISO 527
Tensile Stress at Yield	31	MPa	ISO 527
Tensile Elongation at Yield	2.8	%	ISO 527
Tensile Elongation at Break	5	%	ISO 527
Impact Strength (Charpy, 23°C)	23	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	12	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	86	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	25	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)	0.7 - 0.9	%	ISO 294-4



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Physical Properties

Density	1220	kg/m ³	ISO 1183
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	87	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.3	%	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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