

Technical Data Sheet



ALCOM PP 620/1 WT1433-05LB

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