

Technical Data Sheet



ALCOM PBT 700/2 WT31-956LB

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	special filler
Special Features	high stiffness, highly reflective, opaque
Market Segment	Automotive, various
Application Area	lighting, light blocking components
Typical Applications	light guides, reflectors

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-4 h in an air circulating dryer 100-120 °C for 4-8 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	79	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Stress at Yield	55	MPa	ISO 527
Tensile Elongation at Yield	3.5	%	ISO 527
Tensile Elongation at Break	11	%	ISO 527
Impact Strength (Charpy, 23°C)	125	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	180	°C	ISO 306
HDT / A (1,8 MPa)	60	°C	ISO 75-1/-2
DSC (Melt Point)	225	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	25	cm ³ /10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.8 - 2.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.7 - 2.1	%	ISO 294-4

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Physical Properties

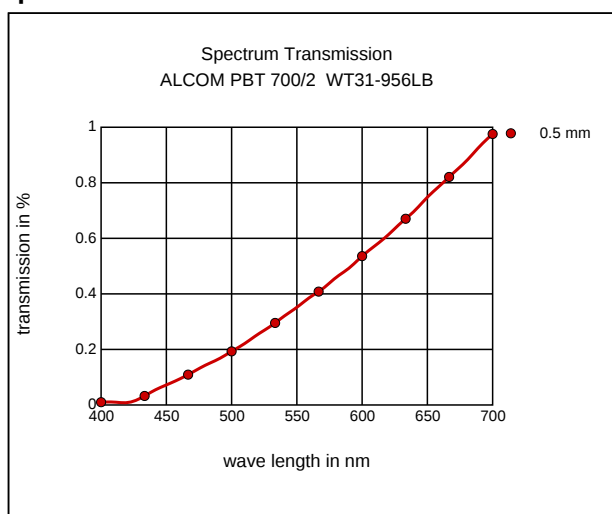
Density	1440	kg/m ³	ISO 1183
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Optical Properties

Tristimulus Value Y10 of Reflection (d=2,0mm)	92	%	DIN 5033
Tristimulus Value Y10 of Transm.,d=0.5mm	0.4	%	ISO 13468

Diagrams

Spectrum Transmission



Spectrum Reflexion

