

Technical Data Sheet



ALCOM PBT/ASA 715/1 GF15 TF6 UV WT1287-09LB

Base Polymer	Polybutylene Terephthalate + Acrylonitrile Styrene Acrylate
Filler/Additive System	15 % glass fibres, 6 % PTFE
Special Features	highly reflective, opaque, high stiffness, UV stabilised
Market Segment	Automotive, Lighting
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 %
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Processing Injection Moulding	melt temperature 260-280 °C mould temperature 80-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6100	MPa	ISO 178
Flexural Strength	125	MPa	ISO 178
Tensile Modulus	6400	MPa	ISO 527
Tensile Strength at Break	82	MPa	ISO 527
Tensile Elongation at Break	2	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	7	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	140	°C	ISO 306
HDT / A (1,8 MPa)	189	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	12	cm ³ /10min	ISO 1133
MVR temperature	275	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1610	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Optical Properties			
Tristimulus Value Y10 of Reflection (d=2,0mm)	90	%	DIN 5033
Tristimulus Value Y10 of Transm., d=0.5mm	0.6	%	ISO 13468