Technical Data Sheet

Alcom®

MOCOM

ALCOM CFX PBT 1000 16072

Base Polymer	Polybutylene Terephthalate
Special Features	metallic effect
Market Segment	electrical and electronic,building and construction,sport and leisure
Application Area	injection moulded parts
Typical Applications	housings,bezels

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 dependant on moisture content
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 60-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	55	MPa	ISO 527
Tensile Elongation at Yield	10	%	ISO 527
Tensile Elongation at Break	18	%	ISO 527
Impact Strength (Charpy, 23°C)	75	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	65	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	182	°C	ISO 306
HDT / A (1,8 MPa)	54	°C	ISO 75-1/-2
DSC (Melt Point)	223	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	12	cm³/10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	2.1 - 2.5	%	ISO 294-4
Shrinkage (lateral, 24h)	1.9 - 2.3	%	ISO 294-4
Physical Properties			
Density	1280	kg/m³	ISO 1183