

Technical Data Sheet



ALCOM CFX ABS 1000 UV 18146 BN1183-18MC

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Special Features	UV stabilised, injection moulding grade
Market Segment	electrical and electronic (E&E)
Application Area	housings, clothing / fasteners
Typical Applications	injection moulded parts

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 h dependant on moisture content
Processing Injection Moulding	melt temperature 220-250 °C mould temperature 50-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress (3.5% Strain)	73	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	47	MPa	ISO 527
Tensile Elongation at Yield	2.8	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	63	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	18	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	95	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	107	°C	ISO 306
HDT / A (1,8 MPa)	95	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	13	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 0.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1050	kg/m ³	ISO 1183