

Technical Data Sheet



ALTECH PC+ABS ECO 1000/580

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	contains recycled material,laser etchable (dark etching)
Market Segment	Automotive,electrical and electronic
Application Area	injection moulded parts
Typical Applications	housings,housing and automotive trim unpainted

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-4 h in an air circulating dryer 100-110 °C for 4-8 h max. moisture content <0,02 %
-----------------------	---

Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
-------------------------------	--

Storage	dry, protected from light
---------	---------------------------

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	74	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	57	MPa	ISO 527
Tensile Elongation at Yield	4.6	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	75	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	24	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	108	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	125	°C	ISO 306
HDT / A (1,8 MPa)	99	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	15	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1130	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	1.11	kg CO ₂ eq./kg	ISO 14040, 14044