Technical Data Sheet

Altech® ECO

ALTECH PC+ABS ECO 1000/720 UV

(Last update: 16.05.2024)

M⚙COM

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	injection moulding grade,contains recycled material,UV stabilised,easy release (demoulding)
Market Segment	electrical and electronic
Application Area	injection moulded parts
Typical Applications	thin walled parts,housings

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 dependant on moisture content 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	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	80	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	59	MPa	ISO 527
Tensile Elongation at Yield	4.7	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	250	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	40	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	124	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	35	cm³/10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 0.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1150	kg/m³	ISO 1183

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Ecological Properties

Global Warming Potential (GWP)	1.12	kg CO_2 eq./kg	ISO 14040, 14044

Additional Information

When using raw materials from a recycling process, as with prime materials, ferrous / non-ferrous residues can never be completely excluded. To minimize the risk of possible effects of such residues, MOCOM uses extensive detection and separation systems in the production process of its compounds. However, even these quality assurance systems cannot guarantee that the resulting product is 100% free of such residues. Therefore, we recommend our customers to additionally use their own detection and separation systems adapted to their respective process. For further questions and specific advice in connection with MOCOM products, please do not hesitate to contact our application engineering department. The ecological properties listed in this document were calculated for a production in one of our European plants. Data for production in the United States or China can be provided by sending a request to the following address. technical@mocom.eu

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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