

Technical data

KEBALLOY C43

KEBALLOY C43 is an unreinforced PC/ABS polymer blend which, due to its increased PC content, has advantages over KEBALLOY EP grades in terms of its mechanical properties. It has a particularly good combination of stiffness and toughness and impresses with problem-free processing.

Polymer: PC/ABS

ISO designation: PC/ABS

Productgroup: PC/ABS

Brief description of the product family:

The trade name KEBALLOY stands for polymer blends with a special focus on decorative surfaces. The range includes electroplated chrome types, as well as paintable materials. KEBALLOY 3D is a system of materials and painting processes to achieve a 3D effect paint finish.

Properties:

amorphous, dimensionally stable, paintable, impact resistant

Typical areas of application:

Controls, Housing, Handles, Trim

Industries:

Automotive, Household appliances

Physical properties

Moisture absorption 23°C/50% r.h. in %. in Anlehnung an ISO 62	0.20
Density in kg/m ³ ISO 1183-1	1120.00

Mechanical properties

E-modulus in MPa ISO 527-1	2400
Yield stress in MPa ISO 527-1	55
Elongation at break in % ISO 527-1	50.0
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	100.0
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	50.0

Rheological properties

Melt flow rate MFR (test condition)	240°C / 5kg
Melt flow rate MFR in g/10min ISO 1133	10.0
Shrinkage in flow direction in % ISO 294-4	0.60
Shrinkage transverse to the flow direction in % ISO 294-4	0.60

Thermal properties

Heat deflection temperature HDT (1.80 MPa) in °C ISO 75-1/-2	120.0
Fire behavior (0.8 mm wall thickness) IEC 60695-11-10	HB

Electrical properties

Contact resistance in Ohm*m IEC 60093	1e+13
Surface resistivity in ohms IEC 60093	1e+15

Processing instructions:**Pre-drying:**

Dryer type: dry air dryer.

Temperature: 100-110°C

Drying time: 2-4 h

Residual moisture: < 0.02%

Temperatures:

Melt temperature: 240 – 280°C

Mold temperature: 70 – 100 °C

Legal notices:

The information in this data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during processing and application of our products, they do not exempt the processor from carrying out his own tests and trials. A legally binding assurance of certain properties or suitability for a specific application cannot be derived from our information.

* FE products are development products which are still in the trial phase. Technical data may still change in the course of product and process development. No final decision has yet been made on the commercialization of FE products. We reserve the right to discontinue the manufacture of FE products without giving further reasons.

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