

Technical data

Privat: KEBALLOY EP FE 170404 (Development product*)

KEBALLOY EP FE 170404 is an unreinforced ABS/PC polymer blend, which is particularly suitable for the production of sophisticated chrome-plated components. It is also optimized for very good adhesion of the plating layer and has a wide process window. In addition, it has increased heat resistance compared to KEBALLOY EP23 and improved flowability compared to KEBALLOY EP 23 and KEBALLOY EP 25.

Polymer: ABS/PC

ISO designation: ABS/PC

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, chrome-plated

Typical areas of application:

Controls, Housing, Handles, Trim

Industries:

Automotive, Household appliances

Physical properties

Water absorption in % in Anlehnung an ISO 62	0.70
Moisture absorption 23°C/50% r.h. in %. in Anlehnung an ISO 62	0.20
Density in kg/m ³ ISO 1183-1	1100.00

Mechanical properties

E-modulus in MPa ISO 527-1	2300
Yield stress in MPa ISO 527-1	50
Elongation at yield in % ISO 527-1	6.0
Elongation at break in % ISO 527-1	40.0
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	230.0
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	40.0

Rheological properties

Melt flow rate MFR (test condition)	240°C / 5kg
Melt flow rate MFR in g/10min ISO 1133	17.0

Thermal properties

Heat deflection temperature HDT (1.80 MPa) in °C ISO 75-1/-2	105.0
Fire behavior (0.4 mm wall thickness) IEC 60695-11-10	HB
Fire behavior (0.8 mm wall thickness) IEC 60695-11-10	HB
Fire behavior (1.6 mm wall thickness) IEC 60695-11-10	HB
Fire behavior (3.2 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
Dielectric strength in kV/mm IEC 60243-1	35

Processing instructions:**Pre-drying:**

Dryer type: dry air dryer

Temperature: 80 °C

Drying time: 2-4 h

Residual moisture: < 0.02

Temperatures:

Melt temperature: 230 – 260 °C

Mold temperature: 60 – 80 °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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Am Weidenbach 8-10
51491 Overath

Telefon +49 (0)2206 90851-100
Telefax +49 (0)2206 90851-199

E-Mail: kontakt@barlog.de
Web: www.barlog.de