

Technical data

KEBALLOY ECO R-PC/ABS FE210101 black

KEBALLOY ECO R-PC/ABS FE210101 black is a non-reinforced, halogen-free flame retardant ABS/PC blend with 35% post-consumer recycled content.

Polymer: ABS/PC

ISO designation: ABS/PC-HFFR(REC)

Productgroup: Recycling Compounds

Brief description of the product family:

The name KEBALLOY ECO stands for a product range of engineering plastics and high-performance compounds based on post-consumer or post-industrial recyclate. KEBALLOY ECO compounds enable significant CO2 savings compared to virgin materials and meet the highest requirements in terms of product properties and their uniformity from batch to batch. KEBALLOY ECO compounds also enable customer- or application-specific microcycles of engineering plastic parts and are thus a valuable contribution on the way to a circular plastics economy.

Properties:

amorphous, dimensionally stable, electrically isolating, Low warpage, good fire behavior, impact resistant

Typical areas of application:

Covers, Apertures, Housing, Coffee machines, Luminaire housing, shockproof housing, Structural components, Carrier

Industries:

Electrical and electronics industry, Household appliances, Industry, Mechanical Engineering, Solar technology

Physical properties

Density in kg/m ³ ISO 1183-1	1180.00
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Mechanical properties

E-modulus in MPa ISO 527-1	2300
Breaking stress in MPa ISO 527-1	55.0
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	40.0
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	6.0

Rheological properties

Melt flow rate MFR (test condition)	260°C / 2,16kg
Melt flow rate MFR in g/10min ISO 1133	17.0
Shrinkage in flow direction in % ISO 294-4	0.40
Shrinkage transverse to the flow direction in % ISO 294-4	0.40

Thermal properties

Continuous operating temperature in °C ISO 2578	90.0
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Thermal properties

Heat deflection temperature HDT (1.80 MPa) in °C ISO 75-1/-2	89.0
Fire behavior (0.8 mm wall thickness) IEC 60695-11-10	V2
Fire behavior (1.6 mm wall thickness) IEC 60695-11-10	V0

Electrical properties

Tracking resistance CTI in V IEC 60112	600
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Processing instructions:

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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