Technical data
KEBALLOY ECO R-PA12 GF50 black 9001

KEBALLOY ECO R-PA12 GF50 black 9001 is a post-industrial recycled PA12 compound reinforced with 50% short glass fibers.

Polymer: PA 12

ISO designation: PA12-GF50(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:

good chemical resistance, High strength, High stiffness, High weather resistance, semi-crystalline, PFAS-free

Typical areas of application:

Connecting elements, Fittings, Fasteners, Hardware, Actuating elements, Pipe fitting, Housing, Handles, industrial goods, Couplings, media-carrying components, shockproof housing, Structural components, Carrier, Valves

Industries:

Automotive, Electrical and electronics industry, Household appliances, Industry, Agriculture, Aviation Industry, Mechanical Engineering, Furniture industry, Sports & Recreation

Physical properties

Density in kg/m³ | ISO 1183-1	1470

Mechanical properties

Tensile modulus in MPa | ISO 527-1	11500
Stress at break in MPa | ISO 527-1	135
Strain at break in % | ISO 527-1	4
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	70
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	15

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	0.1
Molding shrinkage transverse to the flow direction in % | ISO 294-4	0.4

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	178

Processing instructions:

Pre-drying:

Dryer type: dry air dryer
Temperature: 80°C
Drying time: 4 h
Residual moisture: < 0.1%

Temperatures:

Melt temperature: 240 – 280°C
Mold temperature: 40 – 80°C
Back pressure: max. 60 bar (spec.)
Injection speed: medium

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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