Technical data
KEBALLOY ECO FE 200407/1 PA12

KEBALLOY ECO FE200407/1 PA12 is a flame retardant PA12 compound with recycled content.

Polymer: PA 12

ISO designation: PA12-FR(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:

flexible, good fire behavior, semi-crystalline, PFAS-free

Typical areas of application:

Housing, Cables and cable conduits

Industries:

Railroad industry, Industry, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	1070

Mechanical properties

Tensile modulus in MPa | ISO 527-1	1050
Stress at yield in MPa | ISO 527-1	25
Strain at yield in % | ISO 527-1	14.5
Strain at break in % | ISO 527-1	150
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	N.B.
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	5.6

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	177

Processing instructions:

Pre-drying:

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

Temperatures:

Melt temperature: 220 – 250°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.

Created at: 23.05.2026

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