

Technical data

KEBAFORM C FE 161105 (Development product*)

KEBAFORM C FE 161105 is tribologically optimized POM copolymer, which due to its property profile is particularly suitable for applications requiring good sliding and wear behavior...

Polymer: POM

Productgroup: POM

Brief description of the product family:

Under the trade name KEBAFORM, we market a wide product range of POM copolymers. KEBAFORM products are characterized by high strength and surface hardness, excellent chemical resistance and outstanding sliding and wear behavior. The product range includes basic grades with different viscosities, sliding and wear-optimized grades, variants reinforced with glass and carbon fibers, and various other modified compounds.

Properties:

dimensionally stable, good chemical resistance, good gliding properties, good recovery behavior, High wear resistance, semi-crystalline

Typical areas of application:

Spring elements, Pipe fitting, Sliding elements, Plain bearing, industrial goods, Piston, Couplings, Profiles, Rollers, Valves, Connecting elements, Distributor, Gears

Industries:

Automotive, Household appliances, Industry, Agriculture, Mechanical Engineering, Furniture industry, Sports & Recreation

Electrical properties

Contact resistance in Ohm*m IEC 60093	1e+14
Surface resistivity in ohms IEC 60093	1e+14

Mechanical properties

E-modulus in MPa ISO 527-1	2600
Yield stress in MPa ISO 527-1	55
Elongation at break in % ISO 527-1	10.0
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	6.0

Physical properties

Density in kg/m ³ ISO 1183	1420.00
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Rheological properties

Shrinkage in flow direction ISO 294-4	1.40
Shrinkage transverse to the flow direction ISO 294-4	1.80

Thermal properties

Melting temperature (DSC, 10°C/min) in °C ISO 11357-1/-3	166.0
Heat deflection temperature HDT (1.80 MPa) in °C ISO 75-1/-2	85.0

Thermal properties

Fire behavior (1.6 mm wall thickness) | IEC 60695-11-10

HB

Processing instructions:

Pre-drying:

(May be required to remove surface moisture:)

Dryer type: Dry air dryer

Temperature: 80 - 100°C

Drying time: 2 - 4 h

Temperatures:

Mass temperature: 180 - 210°C

Mold temperature: 60 - 120°C (general guideline for technical parts: min. 90°C)

Back pressure (spec.): 10 - 40 bar

Injection speed: medium

Injection pressure: 600 - 1200 bar (depending on part and gate geometry)

Holding pressure: 600 - 1200 bar (depending on component and gate geometry)

The residence time of the melt in the screw antechamber should be kept as short as possible. In the event of longer downtimes, the barrel and hot runner must be sprayed empty.

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