BARLOG Plastics
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Technical data
KEBAFORM C 901 TS

KEBAFORM C 901TS is a specially modified grade which is characterized by excellent sliding and wear properties. Despite the highly efficient modification with PTFE and a special silicone oil, KEBAFORM C 901TS has excellent mechanical properties. KEBAFORM C 901TS is used wherever high demands are made on wear resistance, uniformity of frictional behavior under changing conditions and low noise development, while at the same time the mechanical property profile of a technical engineering material is required. KEBAFORM 901TS is particularly suitable for sliding couples with changing operating conditions, e.g. when start-up behavior without stick-slip effect is required as well as high wear resistance over the entire service life.

Polymer: POM

ISO designation: POM-C-S-X

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:

Fasteners, Spring elements, Sliding elements, Plain bearing, Bearing bushes, Gears

Industries:

Automotive, Industry, Agriculture, Mechanical Engineering, Furniture industry

Physical properties

Density in kg/m³ | ISO 1183-1	1390.00

Mechanical properties

E-modulus in MPa | ISO 527-1	2150
Yield stress in MPa | ISO 527-1	42
Elongation at yield in % | ISO 527-1	11.0
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	70.0
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	3.5

Rheological properties

Melt flow rate MFR (test condition) |	190°C / 2,16kg
Melt flow rate MFR in g/10min | ISO 1133	5.8
Shrinkage in flow direction in % | ISO 294-4	2.30
Shrinkage transverse to the flow direction in % | ISO 294-4	2.30

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	168.0
Heat deflection temperature HDT (1.80 MPa) in °C | ISO 75-1/-2	100.0
Fire behavior (0.8 mm wall thickness) | IEC 60695-11-10	HB
Fire behavior (1.6 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	2e+11

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 part and gate geometry)

General processing instructions:

The residence time of the melt in the screw antechamber should be kept as short as possible. In case of longer downtimes, an empty spraying of barrel and hot runner is necessary.

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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