

Technical data **KEBATRON PPS FE 211102 (development product*)**

PPS-GF40, linear PPS, 40% glass fiber reinforced, fast cycle, low burr formation

Polymer: PPS

ISO designation: PPS-L-GF40

Productgroup: PPS

Brief description of the product family:

Under the trade name KEBATRON, we offer a range of high-performance compounds based on PPS. KEBATRON offers high continuous service temperature, good aging behavior, high strength and stiffness, is inherently flame retardant and has exceptionally good chemical resistance.

Properties:

dimensionally stable, good chemical resistance, Good electrical properties, good aging behavior, good fire behavior, high continuous used temperature, High strength, High stiffness, semi-crystalline

Typical areas of application:

Valve body, Distributor, Pipe fitting, Water pumps, Housing, Water meter housing, Coffee machines, Lamp socket, Cables and connectors for media-carrying systems, media-carrying components, Pumps and motors, Pump housing, Sanitary housing (brass replacement), Sensors, Bobbin, Plug, Valves, Valve caps

Industries:

Automotive, Electrical and electronics industry, Household appliances, Industry, Aviation Industry, Mechanical Engineering, Sanitary industry

Physical properties

Density in kg/m ³ ISO 1183-1	1650
---	------

Mechanical properties

E-modulus in MPa ISO 527-1	14800
Breaking stress in MPa ISO 527-1	200
Elongation at break in % ISO 527-1	1.8
Impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eU	55
Notched impact strength (Charpy) at 23°C in kJ/m ² ISO 179-1eA	10.5

Thermal properties

Melting temperature (DSC, 10°C/min) in °C ISO 11357-1/-3	284
--	-----

Processing instructions:

Pre-drying:

Dryer type: dry air dryer (!).

Temperature: 120 – 140 °C

drying time: 4 – 8 h

Recommended max. residual moisture: < 0.02 %.

Recommended basic settings:

melt temperature: 310 – 335°C

Mold temperature: 140 – 160°C (As a rule of thumb, the higher the requirements, the higher the mold temperature).

Back pressure: < 10 bar (spec.)

The injection speed should be set as a slow – fast – slow profile. As a principle: as fast as possible, as slow as necessary.

Machine selection:

In the processing of KEBATRON PPS, wear and corrosion protected injection units have proven their worth. The injection unit should be selected so that the shot volume is 50 – 80% of the maximum metering volume. The residence time should be kept as short as possible.

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: 24.04.2024

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