BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBATRON PPS FWL1020G1 (FE211201*)

linear PPS, 20% glass fiber reinforced, food grade

Polymer: PPS

ISO designation: PPS-L-GF20-FC

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:

Industries:

Physical properties

Water absorption in % | in Anlehnung an ISO 62	0.02
Density in kg/m³ | ISO 1183-1	1480

Mechanical properties

E-modulus in MPa | ISO 527-1	8500
Breaking stress in MPa | ISO 527-1	120.0
Elongation at break in % | ISO 527-1	1.7
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	27.0
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	5.0

Rheological properties

Shrinkage in flow direction in % | ISO 294-4	0.3
Shrinkage transverse to the flow direction in % | ISO 294-4	0.7

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	280.0

Thermal properties	
Continuous operating temperature in °C | ISO 2578	200.0
Fire behavior (0.8 mm wall thickness) | IEC 60695-11-10	V0

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: 320 – 340°C
Mold temperature: 140 – 180°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 dwell 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: 29.03.2024

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