BARLOG Plastics
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Technical data
KEBAFLEX / U A 75 ST B01 natural

KEBAFLEX / U A 75 ST B.01 natural is a polyester TPU with a high resistance to oils and greases, very good damping and recovery behavior, high temperature resistance and very good compression set. KEBAFLEX / U A75 ST B.01 natural does not contain plasticizers.

Polymer: TPE-U

ISO designation: TPE-U

Productgroup: TPE

Brief description of the product family:
The trade name KEBAFLEX / U stands for a range of thermoplastic polyurethane elastomers. KEBAFLEX / U is characterized by excellent sliding and wear behavior, suitability for use at elevated temperatures, good UV resistance and high mechanical load-bearing capacity.

Properties:

flexible, good chemical resistance, good gliding properties, good recovery behavior, high continuous used temperature, High wear resistance, semi-crystalline, PFAS-free

Typical areas of application:

Sealing elements, Seals, Haptic components, Cable sheaths, Rollers, shockproof housing, Timing belt

Industries:

Automotive, Household appliances, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	1180

Mechanical properties

Stress at break in MPa | ISO 527-1	42
Strain at break in % | ISO 527-1	900
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	N.B.
Compression set at 23°C in %. | ISO 815-1	25
Compression set at 70°C in %. | ISO 815-1	50
Compression set at 100°C in % | ISO 815-1	35
Shore A hardness | DIN ISO 7619-1	75
Stress at 100% elongation in MPa | DIN EN ISO 527-1	3.4
Stress at 300% elongation in MPa | DIN EN ISO 527-1	5.9

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	1.1
Molding shrinkage transverse to the flow direction in % | ISO 294-4	1.1

Processing instructions:

Pre-drying recommendation:

Dryer type: dry air dryer
Temperature: 80 – 90 °C
Drying time: 2 – 3 h
Recommended max. residual moisture: < 0,02 %.

Temperature recommendation:

Melt temperature: 190 – 220°C
Mold temperature: 20 – 50°C

Injection molding processing:

KEBAFLEX / U A 75 ST B.01 can be processed on standard injection molding machines with 3-zone screw with non-return valve.
Injection speed: as fast as necessary, as slow as possible
Back pressure: 5 – 20 bar (spec.)

Post-treatment:

To achieve optimum functional properties in a short time, we recommend tempering the finished parts. This heat treatment can be carried out in a convection oven.
Recommended duration and temperature: 20 hours at 100 °C.

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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