BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / U A 85 HT B01 natural

TPE-U, Shore A85, natural, high temperature resistance

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 gliding properties, good recovery behavior, High wear resistance, semi-crystalline, PFAS-free

Typical areas of application:

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	46
Strain at break in % | ISO 527-1	690
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	N.B.
Compression set at 23°C in %. | ISO 815-1	18
Compression set at 70°C in %. | ISO 815-1	27
Shore A hardness | DIN ISO 7619-1	85

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	0.85
Molding shrinkage transverse to the flow direction in % | ISO 294-4	0.65

Processing instructions:

Pre-drying recommendation:

KEBAFLEX / U must be pre-dried before processing.
Dryer type: dry air dryer
Temperature: max. 90°C
Drying time: 2 – 3 h
Moisture content < 0.02 %.

Temperature recommendation:

Melt temperature: 200 – 220°C
Mold temperature: 20 – 50°C

Demolding:

Due to its special properties, KEBAFLEX / U may tend to stick to smooth and polished mold surfaces. Structured surfaces favor the demolding behavior. Alternatively, the mold can be provided with suitable coatings.

Post-treatment:

To achieve optimum service properties, tempering of the finished parts is required. This heat treatment can be carried out in a forced-air furnace.

Tempering recommendation:

Temperature: 100°C
Tempering time: 20 h

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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