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Technical data
KEBAFLEX / U D72 ST B.01

KEBAFLEX / U D72 ST B.01 is a TPU with a Shore hardness of 72D. It is characterized by flexibility and good good wear and abrasion 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 haptics, good gliding properties, good recovery behavior, High wear resistance, impact resistant, PFAS-free

Typical areas of application:

Sealing elements, Spring elements, Sliding elements, Haptic components, industrial goods, Rollers, Gears, Timing belt

Industries:

Automotive, Household appliances, Industry, Agriculture, Mechanical Engineering, Sports & Recreation

Physical properties

Density in kg/m³ | ISO 1183-1	1250

Mechanical properties

Stress at break in MPa | ISO 527-1	49
Strain at break in % | ISO 527-1	345
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	N.B.
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	N.B.
Compression set at 23°C in %. | ISO 815-1	42
Compression set at 70°C in %. | ISO 815-1	63
Shore D hardness | DIN ISO 7619-1	72

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	0.6
Molding shrinkage transverse to the flow direction in % | ISO 294-4	0.65

Processing instructions:

Pre-drying recommendation:

Dryer type: dry air dryer
Temperature: 90°C
Drying time: 2 – 3 h
Residual moisture: <0.02

Temperature recommendations:

Melt temperature: 215 – 235°C
Mold temperature: 20 – 50°C

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. Please ask our application engineering department for more information.

Post-treatment:

To achieve optimum service properties, the finished parts must be tempered. 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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