Technical data
KEBAFLEX / U FE 160603/2

KEBAFLEX / U FE160603/2 is a detectable TPU, Shore A87 in the color dark blue for applications in the food industry.

Polymer: TPE-U

ISO designation: TPE-U-MED

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, compliant for food contact (according to 10/2011 EC), impact resistant, approved for food contact (EU and FDA), PFAS-free

Typical areas of application:

Sealing elements, Spring elements, Haptic components, industrial goods

Industries:

Automotive, Household appliances, Industry, Agriculture, Food processing industry, Mechanical Engineering, Sports & Recreation

Physical properties

Density in kg/m³ | ISO 1183-1	1350

Mechanical properties

Stress at break in MPa | ISO 527-1	29
Strain at break in % | ISO 527-1	830
Shore A hardness | DIN ISO 7619-1	87
Stress at 50% elongation in MPa | DIN EN ISO 527-1	5
Stress at 100% elongation in MPa | DIN EN ISO 527-1	6

Processing instructions:

Pre-drying recommendation:

Dryer type: dry air dryer
Temperature: 90°C
Drying time: 3 – 4 h
Residual moisture: <0.02

Temperature recommendations:

Melt temperature: 200 – 220°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 consult our application engineering department.

Dwell time on the machine:

Aim for short dwell time, empty cylinder when production is interrupted, lower temperature, flush with fresh material when restarting.

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.

Created at: 22.05.2026

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