BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / P D 40.3

Polyester-Elastomer, Shore D40

Polymer: TPC-ET

ISO designation: TPC-ET

Productgroup: TPE

Brief description of the product family:
KEBAFLEX / P stands for a range of thermoplastic polyester elastomers. This group of materials is characterized by very good flexibility and recovery behavior, constant properties over a wide temperature range, good sliding and wear behavior, and durability under dynamic loads.

Properties:

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

Typical areas of application:

Axle collars, Airbag covers, Sealing elements, Spring elements, Sliding elements

Industries:

Automotive, Household appliances, Mechanical Engineering, Sanitary industry

Physical properties

Density in kg/m³ | ISO 1183-1	1150

Mechanical properties

Stress at break in MPa | ISO 527-1	17
Strain at break in % | ISO 527-1	650
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	N.B.
Notched impact strength (Charpy) at -30°C in kJ/m² | ISO 179-1eA	N.B.
Shore D hardness | DIN ISO 7619-1	40

Rheological properties

Melt flow rate MFR (test condition) |	200°C / 2,16kg
Melt flow rate MFR in g/10min | ISO 1133	17

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	170

Thermal properties

Burning behavior at thickness 0.8 mm | IEC 60695-11-10	HB

Electrical properties

Volume resistivity in Ohm*m | IEC 60093	1e+14

Processing instructions:

Pre-drying recommendation:

Dryer type: dry air dryer
Temperature: 100°C
Drying time: 3 – 6 h
Residual moisture: <0.04

Temperature recommendation:

Melt temperature: 190 – 240°C
Mold temperature: 30 – 80 °C

General processing instructions:

KEBAFLEX / P can be processed on standard injection molding machines. The selected cylinder capacity should not exceed 2 – 3 shots to avoid thermal material damage.

Due to its special properties, KEBAFLEX / P 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 contact our application engineering department.

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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