BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / P D 55.1

Polyester-Elastomer, Shore D55

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	1200

Mechanical properties

Stress at break in MPa | ISO 527-1	35
Strain at break in % | ISO 527-1	600
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	N.B.

Rheological properties

Molding shrinkage in flow direction in % | ISO 294-4	1.2
Molding shrinkage transverse to the flow direction in % | ISO 294-4	1.2

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	200
Temp. of deflection under load, 0.45 MPa in °C | ISO 75-1/-2	70

Processing instructions:

Pre-drying recommendation:

KEBAFLEX / P (polyester) must be pre-dried before processing.
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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