BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / P D40.3 HR FC

Polyester elastomer, Shore D39, suitable for food contact applications

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, compliant for food contact (according to 10/2011 EC), semi-crystalline

Typical areas of application:

Sealing elements, Seals, Bellows, Spring elements, Sliding elements, Haptic components, industrial goods, Piston, Rollers, Hoses, Valves, Timing belt

Industries:

Automotive, Electrical and electronics industry, Household appliances, Industry, Agriculture, Food processing industry, Mechanical Engineering, Medical Technology, Furniture industry, Sanitary industry, Sports & Recreation

Physical properties

Density in kg/m³ | ISO 1183-1	1120.00

Mechanical properties

Breaking stress in MPa | ISO 527-1	21.0
Elongation at break in % | ISO 527-1	800.0
Impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eU	100.0
Shore D hardness | DIN ISO 7619-1	39.0

Rheological properties

Shrinkage in flow direction in % | ISO 294-4	1.10
Shrinkage transverse to the flow direction in % | ISO 294-4	1.00

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	195.0
Fire behavior (1.6 mm wall thickness) | IEC 60695-11-10	HB
Fire behavior (3.2 mm wall thickness) | IEC 60695-11-10	HB

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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Am Weidenbach 8-10
51491 Overath

Telefon +49 (0)2206 90851-100
Telefax +49 (0)2206 90851-199

E-Mail: kontakt@barlog.de
Web: www.barlog.de