BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / P D40.3 HR

Polyester elastomer, Shore D40, partially crosslinked, with improved resilience and good spring properties

Polymer: TPC-ET

ISO designation: TPC-ET-X

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

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	1150.00

Mechanical properties

Breaking stress in MPa | ISO 527-1	17.0
Elongation at break in % | ISO 527-1	650.0
Notched impact strength (Charpy) at 23°C in kJ/m² | ISO 179-1eA	100.0
Notched impact strength (Charpy) at -30°C in kJ/m² | ISO 179-1eA	100.0
Shore D hardness | DIN ISO 7619-1	40

Rheological properties

Melt flow rate MFR (test condition) |	200°C / 2,16 kg
Melt flow rate MFR in g/10min | ISO 1133	13.0

Thermal properties

Melting temperature (DSC, 10°C/min) in °C | ISO 11357-1/-3	170.0

Thermal properties

Fire behavior (0.8 mm wall thickness) | IEC 60695-11-10	HB

Electrical properties

Contact resistance 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
Tool 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.

Created at: 20.04.2024

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