BARLOG Plastics
Mehr aus Polymer.

Technical data
KEBAFLEX / S FE 170402 (Development product*)

TPE-S, Shore A90, Extrusion

Polymer: TPE-S

ISO designation: TPS-SEBS

Productgroup: TPE

Brief description of the product family:

Under the trade name KEBAFLEX / S we market a range of thermoplastic elastomer compounds based on SEBS/PP. KEBAFLEX / S is available in various Shore hardnesses from below A10 to above D50 and is often used as a substitute for rubber due to its cost-effective processing by injection molding. It is soft and flexible, freely colorable, shows good elastic behavior up to 100°C and offers a pleasant feel. A wide range of modified compounds is available, e.g. adhesion-modified grades for 2K injection molding, printable grades, grades with optimized compression set, etc.

Properties:

flexible, good chemical resistance, good aging behavior, High strength, semi-crystalline

Typical areas of application:

Cables and connectors for media-carrying systems, SCR lines

Industries:

Automotive, Household appliances, Industry, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	900.00

Mechanical properties

Breaking stress in MPa | ISO 527-1	7.4
Elongation at break in % | ISO 527-1	360.0
Shore A hardness | DIN ISO 7619-1	90
Stress at 10% elongation in MPa | DIN EN ISO 527-1	3.70
Stress at 50% elongation in MPa | DIN EN ISO 527-1	5.80
Stress at 100% elongation in MPa | DIN EN ISO 527-1	6.30
Stress at 300% elongation in MPa | DIN EN ISO 527-1	7.20

Rheological properties

Shrinkage in flow direction in % | ISO 294-4	1.60
Shrinkage transverse to the flow direction in % | ISO 294-4	0.90

Thermal properties

Fire behavior (0.4 mm wall thickness) | IEC 60695-11-10	HB

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

For extrusion, we recommend pre-drying (e.g. 4 h/ 80 °C) of the material and a processing temperature of 230 °C. Lower temperatures are likely to cause melting problems.

Pre-drying recommendation:

Dryer type: dry air dryer
Temperature: 80°C
Drying time: 3 – 4 h

Processing temperatures Extrusion:

Melt temperature: 230 – 245°C
Mold temperature: 180 – 220°C

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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