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Technical data
KEBAFLEX / SG 50 FR A.01 natural

KEBAFLEX / SG 50 FR A.01 natural is a product for the manufacture of flexible, flame-retardant seals. It has a Shore hardness of 52 A and, from a wall thickness of 1.5 mm, achieves the V0 classification based on the UL 94 test standard.

Polymer: TPE-S

ISO designation: TPS-SEBS-MD-FR

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 haptics, good fire behavior, semi-crystalline, weich

Typical areas of application:

Sealing elements, Seals, Haptic components, shockproof housing

Industries:

Automotive, Electrical and electronics industry, Household appliances, Mechanical Engineering

Physical properties

Density in kg/m³ | ISO 1183-1	1080.00

Mechanical properties

Breaking stress in MPa | ISO 527-1	2.5
Elongation at break in % | ISO 527-1	220.0
Compression set at 23°C in %. | ISO 815-1	18
Compression set at 70°C in %. | ISO 815-1	29
Shore A hardness | DIN ISO 7619-1	52
Stress at 10% elongation in MPa | DIN EN ISO 527-1	0.70
Stress at 50% elongation in MPa | DIN EN ISO 527-1	1.50
Stress at 100% elongation in MPa | DIN EN ISO 527-1	1.80

Thermal properties

Fire behavior (1.6 mm wall thickness) | IEC 60695-11-10	V0
Fire behavior (3.2 mm wall thickness) | IEC 60695-11-10	V0

Processing instructions:

Pre-drying:

Dryer type: dry air dryer.
Temperature: 60 – 80°C
Drying time: 2-4 h

Temperatures:

Melt temperature: 190 – 220°C
Mold temperature: 20 – 40°C

Dwell time on the machine:

Aim for short dwell time, empty cylinder when production is interrupted, lower temperature, flush with fresh material when restarting.

General processing information:

The relatively high viscosity requires high injection speeds and medium injection pressure. To avoid high internal stresses, and to improve 2K adhesion, keep holding pressure as low as possible and select holding times of injection pressure and holding pressure as short as possible.

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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