



PRELIMINARY DATASHEET

NILFLEX SHF A15 M221 00R

SEBS elastomer is the main constituent of these TPE-S (Thermoplastic Elastomer Styrenic) compounds. These Compounds show high UV and ozone resistance. Nilflex SH is totally recyclable and it can be produced in standard grades and In tailor-made grades.

ISO short Form ISO 18064: TPS-SEBS Pellets

Key Features

- Low odour emission
- Light natural colour
- Excellent colorability
- Designed for injection moulding applications
- Suitable for food contact applications
- Medium density
- Good adhesion to polyolefinic substrate

Availability

- All colours

Process

- INJECTION MOULDING

Application

- General purpose applications
- Furniture
- Electrical
- Consumer
- Building
- Automotive

Property	Method	Unit	Value	Condition	State
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,05		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	10,0	190°C - 5 kg	
MECHANICAL					
Hardness SHORE A	ASTM D2240	Shore A	15	3 sec	
Tensile Break Strength	ASTM D412/C	MPa	3,0		

The listed data are PRELIMINARY and might be subject to variation.

Unless specified to the contrary, the given values have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Please note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions, pigments and any other additives.

All information, recommendation or technical advice provided by TARO PLAST S.p.A. are given in good faith but without warranty, to the best of its knowledge and based on current procedures in effect. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing methods and conditions of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely under your own responsibility.

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Elongation at Break	ASTM D412/C	%	900
Tensile Modulus at 100% elongation	ASTM D412/C	MPa	0,3
Tensile Modulus at 300% Elongation	ASTM D412/C	MPa	0,6
Tear Strength	ASTM D624/C	N/mm	11,0

INJECTION MOULDING	Value
Drying Temperature (Desiccant Dryer)	80°C
Drying Time (Desiccant Dryer)	2 hours
Suggested Max Moisture	0,08%
Suggested Max Re grind	20%
Melt Temperature	160 - 230°C
Rear Temperature	160°C
Middle Temperature	170°C
Front Temperature	180°C
Nozzle Temperature	190°C
Mould Temperature	20 - 50°C
Injection Rate	Medium to Fast (50 - 150 mm/sec)
Back Pressure	0,3 - 0,7 Mpa
Screw Revolving Speed	Medium
Cushion	3 - 6 mm
Screw L/D Ratio	15:1 - 20:1
Screw Compression Ratio	2,5 - 3
Vent Depth	0,025 mm

Notes All NILFLEX SH compounds must be stored indoors at a temperature below 50°C avoiding humidity and direct sunlight as well.
Despite a longer shelf storage life without loss of properties, we recommend to use the material within 6 months from the production date. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry and design.

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