

PRODUCT INFORMATION

## COMPOUND SH A60 E320 U 02R 99 BLACK

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

**ISO short Form** ISO 18064: TPS-SEBS Pellets

### Key Features

- Improved UV and weather resistance
- Exercise temperature: -25°C / 110°C
- Designed for extrusion applications
- High elastic performances
- Excellent surface smoothness
- Good adhesion to polyolefinic substrate

### Process

- EXTRUSION

### Application

- Furniture
- Window profiles
- Building
- Automotive exterior
- Automotive

Property	Method	Unit	Value	Condition	State
<b>PHYSICAL</b>					
Density (+23°C)	ISO 1183	g/cm <sup>3</sup>	1,16		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	< 5,0	190°C - 5 kg	
<b>MECHANICAL</b>					
Hardness SHORE A	ASTM D2240	Shore A	60	3 sec / Extruded sample	
Hardness SHORE A	ASTM D2240	Shore A	65	3 sec / Injection moulded sample	
Tensile Break Strength	ASTM D412/C	MPa	6,0		

The listed data are in the normal range of product properties, they should not be used to establish specification nor as the basis of design.

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.

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Elongation at Break	ASTM D412/C	%	700
Tensile Modulus at 100% elongation	ASTM D412/C	MPa	2,0
Tensile Modulus at 300% Elongation	ASTM D412/C	MPa	3,0
Tear Strength	ASTM D624/C	N/mm	30,0
Compression Set (23°C - 22 h)	ASTM D395/B	%	20
Compression Set (70°C - 22 h)	ASTM D395/B	%	45
Compression Set (100°C - 22 h)	ASTM D395/B	%	73

EXTRUSION	Value
Drying Temperature (Circulating Air Oven)	80°C
Drying Time (Circulating Air Oven)	3 hours
Melt Temperature	200 - 220°C
Feed Temperature	170°C
Rear Temperature	180°C
Middle Temperature	190°C
Front Temperature	190°C
Die Temperature	210°C
Screw Revolving Speed	50 - 100 rpm
Screw L/D Ratio	20:1
Screw Compression Ratio	3,0:1 - 4,5:1

**Notes** All COMPOUND SH compounds must be stored indoors at a temperature below 50°C / 120°F 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 or extruder, part geometry and design.

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