

SEBS Styrene Ethylene Butadiene Styrene

Description

SEBS-based compounds with excellent elastomeric properties and a rubberlike appearance, designed for injection moulding and co-moulding onto polyolefines. They have excellent U.V. stability and are also suitable for extrusion applications. There are many varients from pure transparent high elasticity grades to filled gasket grades.

Applications

Car interiors, home furnishings, domestic electrical appliances, flippers & other diving equipment, ski-boots, skating shoes, gaskets, parts for tools, handles, door handles etc. Food grades and medical: tops for containers and bottles. Toys.

Types of grade available

Shore A 10 - 60

Translucent grades with excellent electrometric properties.

Opaque grades with excellent al-round properties

Co-moulding high flow grades

Transparent grades

Hugh temperature grades

Hard grades with high modulus

Over moulding Polar resins

Over moulding Polyamides

General	Drogos	aina
Czenerai	Proces	sing

Drying Time	N/A
Drying Temperature	N/A
Type of Drier	N/A
Purging	DYNAPURGE K
Moisture Absorption	NO
Other Considerations	Easy to process

Processing Injection Moulding

Barrel Settings	205°C - 245°C for larger parts 260°C maybe required.
Injection speed	Medium
Injection Pressure	350 to 1500 kg/cm2
Back Pressure	Medium - High
Screw Speed	25 to 75 rpm
Tool Temperature	35-65 °C
Melt Temperature	175-200C

Processing Stability	Ex	cellent					
Gate Considerations	Due to the flexibility of SEBS small gates can be used such						
		sub gates an					
Sprue & Runner	The	The sorter the land length the better and use full round					
Considerations	runners.						
D 1 D 1							
Processing Extrusion	1.00	21000					
Barrel Settings		160 - 210°C					
Screw Speed Screen Packs	50- 100 rpm Breaker plate/coreens for higher back pressure and therefore						
Scient acks	Breaker plate/screens for higher back pressure and there smoother profile surface				are and diererore		
Haul-off / Cooling	Water bath chilled 10c						
Calibration		Suitable for use with a vacuum calibrator or sizing plates.					
					81		
Physical Properties							
Density		0.90	1.18	0.9	1.19		
Shore A		95	90	25	25		
Abrasion resistance – mm3		95	250	200	300		
Tear strength – KN/m		60	43	15	13		
Elongation at Break		600%	670%	800%	680%		
Compression set		40%	35%	15%	21%		
72 hrs @23c							
Tensile Strength – MPa		11.4	8.4	5.1	12.1		
Shrinkage		0.4% - 2.0% dependent upon thickness & hardness of					
		the end pro	oduct				
Flammability							
Flammability Rating	HB	3					
XX7 - 41 1-11:4							
Weatherability Suitability for outdoor	VE	. C					
use	IL	YES					
use							
Fillers & Additives	Plasticiser into eb phase, Reinforcing polymers, Fillers &						
			ifying agents,		<i>J</i>		
			, ,				
Chemical Resistance							
Resistant to		-		_	s (except Nitric)		
	_		Milk, Beer &				
Not resistant to	Oils, Fats, Petrol, Alcohols, Glycols & Freon						
T 10 1 (C)	<u> </u>	1 11 1	1				
Food Contact Status	Grades available						
	1						
Colouring	Ear	aily colours	d naina mairra	rsal masterbatch	200		

REACH &	ROHS	Yes
Compliance		
Bonding		Can be bonded using a urethane based adhesive
Welding		Can be welded by hot plate welding or high frequency
		welding

This information has been provided as a general guide and we suggest that you carry out your own specific tests to be sure that this material is suitable for your application.