



SBS Styrene Butadiene Styrene

Description	
Excellent flexibility and good electrometric properties when cold, abrasion resistant, broad processing range. Basic Thermo Plastic Rubber used for static applications	
Applications	
Footwear, toys and household objects not suitable for out door applications.	
Types of grade available	
Extrusion Moulding Blown Cellular	
General Processing	
Drying Time	N/A
Drying Temperature	N/A
Type of Drier	N/A
Purging	DYNAPURGE K
Moisture Absorption	
Other Considerations	
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/cm ²
Back Pressure	Medium - High
Screw Speed	25 to 75 rpm
Tool Temperature	35-65 °C
Melt Temperature	175-200C
Processing Stability	Excellent
Gate Considerations	Due to the flexibility of SEBS small gates can be used such as sub gates and pin gates
Sprue & Runner Considerations	The sorter the land length the better and use full round runners.
Processing Extrusion	
Barrel Settings	160 -190c
Screw Speed	50- 100 rpm
Screen Packs	Breaker plate/screens for higher back pressure and therefore smoother profile surface

Haul-off / Cooling	Water bath chilled 10c			
Calibration	Suitable for use with a vacuum calibrator or sizing plates.			
Physical Properties				
Density	.98	1.00	.92	.99
Shore A	60	85	30	75
Abrasion resistance – mm3	180	70	N/A	180
Tear strength – KN/m	25	12	14	40
Elongation at Break	500	580	850	450
Tensile Strength – MPa	4.8	6.0	3.8	6.4
Shrinkage	0.4% - 2.0% dependent upon thickness & hardness of the end product			
Flammability				
Flammability Rating	HB			
Weatherability				
Suitability for outdoor use	No			
Fillers & Additives				
	Blowing agents and fillers			
Chemical Resistance				
Resistant to	Water, Aqueous Solutions, Strong Acids (except Nitric) Strong Bases, Milk, Beer & Wine			
Not resistant to	Oils, Fats, Petrol, Alcohols, Glycols & Freon			
Food Contact Status				
	Grades available			
Colouring				
	Easily coloured using universal masterbatches			
WEEE & ROHS Compliance				
	Yes			
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.