

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/cm2					
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	The sorter the land length the better and use full round					
Considerations	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	_	ater bath chille					
Calibration				um calibrator o	or sizing plates.		
	Suitable for use with a vacuum calibrator or sizing plates.						
Physical Properties	1						
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	TIT)					
Flammability Rating	HB						
Weatherability							
Suitability for outdoor	oor No						
use							
Fillers & Additives	Blowing agents and fillers						
Chemical Resistance	117		0.1.4	<u> </u>	1 (NT' (N T')		
Resistant to	Water, Aqueous Solutions, Strong Acids (except Nitric)						
Not resistant to	Strong Bases, Milk, Beer & Wine Oils, Fats, Petrol, Alcohols, Glycols & Freon						
Tot resistant to		Ons, Pais, Feudi, Alcohols, Olycols & Fleon					
Food Contact Status	Grades available						
Colouring	Easily coloured using universal masterbatches						
REACH & ROHS	S Yes						
Compliance							
Bonding	Can be bonded using a wrethene based adhesiwa						
Donung	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.