



شرکت سهامی پتروشیمی بندرامام
شرکت پسیاران

جدول مشخصات و کاربرد انواع محصولات لاستیک مصنوعی

SBR PRODUCT SPECIFICATION & APPLICATION

Products	Properties	Volatile Matter	Ash	Organic Acid	Soap	Bound Styrene	Raw Viscosity (ML 1+4@100°C)	Compound Viscosity (ML 1+4@100°C)	Tensile/elastic Viscosity	Ultimate Elongation (35Minutes Cure)	300 % Modulus (35Minutes Cures)	موارد مصرف APPLICATION
(S.B.R) Poliran SBR-1500	Test Method	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1646	ASTM D-1646	ASTM D-412	ASTM D-412	ASTM D-412	تایر و تیوپ، روکش کردن لاستیک، تسمه نقاله، انواع تسمه، صنایع مکانیکی و کابل TIRE TREADS, CAMEBACK, FOOTWARE, MECHANICAL GOODS
	Value	0.75 max	1.50 max	5.00-7.25	0.50 max	22.5-24.5	46.0-58.0	84 max	250 min	470 min	119-159	
	Units	wt. %	wt. %	wt. %	wt. %	wt. %	--	--	Kg/cm2	%	Kg/cm2	
	Properties	Volatile Matter	Ash	Organic Acid	Soap	Bound Styrene	Raw Viscosity (ML 1+4@100°C)	Compound Viscosity (ML 1+4@100°C)	Tensile/elastic Viscosity	Ultimate Elongation (35Minutes Cure)	300 % Modulus (35Minutes Cures)	
Test Method	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1646	ASTM D-1646	ASTM D-412	ASTM D-412	ASTM D-412		
Value	0.75 max	1.50 max	4.75-7.00	0.50 max	22.5-24.5	46-58	84 max	250 min	350 min	167-207		
Units	wt. %	wt. %	wt. %	wt. %	wt. %	--	--	Kg/cm2	%	Kg/cm2		
(S.B.R) Poliran SBR-1712	Properties	Volatile Matter	Ash	Organic Acid	Soap	Bound Styrene	Raw Viscosity (ML 1+4@100°C)	Compound Viscosity (ML 1+4@100°C)	Tensile/elastic Viscosity	Ultimate Elongation (35Minutes Cure)	300 % Modulus (35Minutes Cures)	تایر، روکش کردن تایر، تسمه نقاله، صنایع کفش، لاستیک صنعتی، انواع شیلنگ TIRE TREADS, CAMEBACK, HOSES GENERAL RANGE OF BLACK INDUSTRIAL PRODUCTS
	Test Method	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1416	ASTM D-1646	ASTM D-1646	ASTM D-412	ASTM D-412	ASTM D-412	
	Value	0.75 max	1.50 max	3.90-5.70	0.50 max	22.5-24.5	42-52	62 max	200 min	530 min	79-109	
	Units	wt. %	wt. %	wt. %	wt. %	wt. %	--	--	Kg/cm2	%	Kg/cm2	

LDPE	LLDPE	MDPE	HDPE	SBR	PP	PVC	GPPS	HIPS	EPS	PET	ABS	PBR	PC	E.P.
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SBR-1500 STYRENE BUTADIENE RUBBER

1) Product Description:

SBR-1500 is a high molecular weight Styrene butadiene rubber combining good extrusion behavior and superior compound properties. It has relatively wide molecular weight distribution and the butadiene component has an average about 9% Cis-1,4, 54.5% trans and 13% 1,2 vinyl structure.

SBR 1500 contains antioxidant to avoid product degradation. The high strength and great toughness of rubber permit the use of its elastic qualities. The properties of rubber show excellent resistance to cutting, tearing and abrasion. It has a relatively long, useful life under a wide variety of conduction.

2) Applications:

SBR-1500 is well suited for wide range of applications due to its unique properties. Some examples are :Tires, tread rubber and molded and extruded mechanical goods.

3) Typical data

Property	Unit	Value	Test Method
Volatile matter	wt %	0.75 max	ASTM D 1416
Ash	wt %	1.5 max	ASTM D 1416
Organic acid	wt %	6.125	ASTM D 1416
Soap	wt %	0.5 max	ASTM D 1416
Bound styrene	wt %	23.5	ASTM D 1416
Raw viscosity (ML 1+4 @ 100 °C)	-	52	ASTM D 1646
Compound viscosity (ML 1+4 @ 100 °C)	-	84 max	ASTM D 1646
Tensile strength (35 min cured)	kg/cm ²	250 min	ASTM D 412
Ultimate elongation(35 min cured)	%	470 min	ASTM D 412
300 % Modulus(35 min cured)	kg/cm ²	139	ASTM D 412

The above data are typical laboratory average . They are intended to serve as guides only.

Compounding formula :(ASTM D-3182 & D-3185):

SBR-1502	300 (gr)
Carbon black IRB = 6. Conforming to NBS – SRM No. 378	150 (gr)
Zincoxide: NBS – SRM No. 370	90 (gr)
Stearic acid: NBS – SRM No. 372	30 (gr)
Sulfur: NBS – SRM No. 371	5.25 (gr)
Accelerator (TBBS): NBS – SRM No. 384	30 (gr)
Temperature: 150 ± 5 °C	
Cure time: 35 min	

Processibility & Compression Set:

SBR 1500 bend more easily on mills and incorporate fillers and oil more readily ,shows less heat generation during mixing.SBR-1500 is easily calendered ,shrinkless often give a higher extrusion rate than its hot rubber and superior apperance of extrudate.

Compression set of the vulcanizate which is important for many application depend in great measure on the compound formulation.The cured conditions and specific test methode through proper compounding and the optimum cure ,it is however possible to obtain very low values of compression set for rubber vulcanizate.

Producer: Bandar Imam Petrochemical Co.

Licensor: JSR

Packing: Bale