Atabeykral

Petrochemical Products

NAME: SBR-1502

Product Description:

SBR-1502 is a cold, 23.5% styrene SBR polymer made with a mixed-acid emulsifier, a non-staining stabilizer and a salt-acid coagulation. Provided that the compounds are formulated and processed correctly, vulcanizes have very good abrasion, good heat and aging resistance, good mechanical properties, good electrical properties and good resistance to polar solvents and dilute acids.

Applications:

End uses include white sidewall types, foot wear, light and dark colored mechanical goods and miscellaneous items where excellent physical properties and minimum discoloration and staining are required.

Typical data: (Table)

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. %	5.875	ASTM D 1416
Soap	wt. %	0.5 max	ASTM D 1416
Bound styrene	wt. %	23	ASTM D 1416
Raw viscosity (ML 1+4 @ 100 ^{o}C)	-	46 - 58	ASTM D 1646
Compound viscosity (M 1+4 @ 100 ^{o}C)	-	84 max	ASTM D 1646
Tensile strength(35 min cured)	kg/cm^2	250 min	ASTM D 412
Ultimate elongation(35 min cured)	%	350 min	ASTM D 412
300 % Modulus(35 min cured)	kg/cm^2	167-207	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)
Zinc oxide: NBS - SRM No. 370	9.0 (gr)
Stearic acid: NBS - SRM No. 372	3.0 (gr)
Sulfur: NBS - SRM No. 371	5.25 (gr)
Accelerator (TBBS): NBS - SRM No.384	3.0 (gr)
Temperature: 150 ± 5 ^{o}C Cure time: 35 min	