SBR 1712

Properties and Characteristics

SBR is produced with the patent technique licensed from Zeon, Japan. The whole unit was designed and provided by Mitsubishi Heavy Industries Ltd. Using butadiene and styrene as the main feedstock, SBR is produced at low temperatures (5°C) through the emulsion polymerization process. Compared with natural rubber, SBR possesses outstanding abrasion resistance, age resistance, ozone resistance, water resistance, and air-tightness. Its homogenous characteristics allow for blending with natural rubbers in any proportion.

Specifications

Property	Value
CAS Number	61789-96-6
Appearance	Yellow
Other Names	Styrene Butadiene Rubber 1712

Item	Unit	SBR 1712 Index
Volatiles	% ≤	1.00
Ash	% ≤	0.50
Organic Acid	%	3.90-5.70
Soap	% ≤	0.50
Bound Styrene	%	22.5 – 24.5
Oil Content	%	24.3-30.3
Raw Viscosity	ML(1+4) 100°C	42 – 56
Compound Viscosity	ML(1+4) 100°C ≤	70
300% Modulus	(145°C, 25min) MPa	9.3-14.3
300% Modulus	(145°C, 35min) MPa	11.6-16.6
300% Modulus	(145°C, 50min) MPa	12.5-17.5
Tensile Strength	(145°C, 35min) MPa ≥	18.4
Elongation at Break	(145°C, 35min) % ≥	370

*According to SBR1712 (SH/T1626-1996)

Applications

SBR 1712 is a staining and oil-extended synthetic rubber with excellent adhesion properties, abrasion resistance and processability. It can be used for tire tread compounds, renovated tire treat compounds, conveyor belts, hoses and conventional black rubber products.

Packaging Details

35kg net weight internal polyethylene-coated plastic woven bags, or as required by customer.

Storage

Store in a cool, dry and well-ventilated place, away from direct sunlight and moisture in case of contamination or damage to product packaging.