



TECHNICAL DATA SHEET

FOR

STYRENE BUTADIENE RUBBER (SBR)

Overview

SBR is produced with the patent technique licensed from Zeon, Japan. The Whole set of unit was designed and provided by Mitsubishi Heavy Industries, Ltd. With butadiene and styrene as main feedstock, SBR are produced by low temperature (5 °C) emulsion polymerization procedures. Compared with natural rubber, SBR possess outstanding abrasion-, ageing-, ozone-, water-resistance, air-tightness and homogeneity characteristics and could be blended with natural rubber in any proportion.

Production plant

The Styrene Butadiene Rubber plant at the Qilu Company has a production capacity of 250kta. The products are respectively brand-named SBR1502E, SBR1502, SBR1712, etc.

Specification of SBR

ITEM		SBR1502E	SBR1502	SBR1712
Volatiles	%	≤0.90	≤0.90	≤1.00
Ash	%	≤0.50	≤0.50	≤0.50
Organic Acid	%	4.50-6.75	4.50-6.75	3.90-5.70
Soap	%	≤0.50	≤0.50	≤0.50
Bound Styrene	%	22.5-24.5	22.5-24.5	22.5-24.5
Oil content	%	—	—	24.3-30.3
Raw Viscosity	ML(1+4)100	44-56	44-56	42-56
Compound Viscosity	ML(1+4)100	≤93	≤93	≤70
300% Modulus	145°C 25min MPa	15.5±2.5	15.5±2.5	9.3-14.3
300% Modulus	145°C 35min MPa	20.6±2.5	20.6±2.5	11.6-16.6
300% Modulus	145°C 50min MPa	21.5±2.5	21.5±2.5	12.5-17.5
Tensile Strength	145°C 35min MPa	≥24.5	≥24.5	≥18.4
Elongation at break	145°C 35min %	≥330	≥330	≥370

Packaging

SBR is packed in internal PE coated plastics woven bags with 35 kg each for net or packed in goodpack with 1260 kg each.

Transportation and storage

SBR should be stored in dry and well ventilated warehouse at ambient temperature. Precautions should be taken against sunburn or rainwater in transportation and handling. Vehicle should be clean and damaged packaging materials should be prevented from entering.