

## Non-Oil Extended Styrene Butadiene Rubber / ESBR

- ESBR 1500 The most typical grade of staining type non-oil extended SBR. It excels in physical properties such as tensile strength, tear resistance, aging resistance, and abrasion resistance. Furthermore, since rosin acid soap is used as the emulsifier, it abounds in tackiness, and excels in processability.
- ESBR 1502 A mixed soap of rosin acid and fatty acid is used as the emulsifier, and it is the most typical grade of non-staining, non-oil extended SBR.
- ESBR 1507 This is a low Mooney Viscosity, non-staining, non-oil extended SBR.
- ESBR 0202 Non-staining, non-oil extended SBR having high Bound Styrene.
- ESBR 1503 Non-staining, non-oil extended SBR having good water resistance.

Grade	Product stain	Bound Styrene (%)	Mooney Viscosity ML <sub>1+4</sub> (100°C)	Emulsifier	Coagulant	Specific Gravity	Application
ESBR 1500	ST	23.5	52	RA	Salt/Acid	0.94	Tire tread, camelback, conveyor belt, hose, other black products
ESBR 1502	NS	23.5	52	RA/FA	Salt/Acid	0.94	Sidewall, footwear, rubberized fabric, other light colored products, non-staining type black products
ESBR 1507	NS	23.5	35	RA/FA	Salt/Acid	0.94	Light colored, translucent products such as sponge, industrial goods, rubberized fabric, and toys. In addition, black products requiring good processability. Tires
ESBR 0202	NS	46	45	RA/FA	Salt/Acid	0.98	Footwear, sponge, industrial goods, other translucent products, non-staining type black products
ESBR 1503	NS	23.5	52	RA/FA	Glue/Acid	0.93	Industrial goods which require water resistance and non-corrosion behavior towards metal

## Oil-Extended Styrene Butadiene Rubber / ESBR

- ESBR 1723 The most typical grade of staining type oil-extended SBR and a successor grade of 1712.
- ESBR 0122 High styrene type of 1723.
- ESBR 1778 A typical non-staining type oil-extended SBR.
- ESBR 1778N A typical non-staining type oil-extended SBR.

Grade	Product stain	Bound Styrene (%)	Mooney Viscosity ML <sub>1+4</sub> (100°C)	Emulsifier	Coagulant	Oil (%)	Specific Gravity	Application
ESBR 1723	ST	23.5	43	RA/FA	Salt/Acid	*1: 27.3	0.93	Tire tread, camelback, conveyor belt, hose, other black products.
ESBR 0122	ST	37	52	RA/FA	Salt/Acid	*1: 25.4	0.95	Tire tread, camelback, conveyor belt, hose, other black products.
ESBR 1778	NS	23.5	55	RA/FA	Salt/Acid	*2: 27.3	0.92	Light colored, translucent products such as footwear, rubberized fabric, tire carcass, sidewall, and other non-staining type black products.
ESBR 1778N	NS	23.5	46	RA/FA	Salt/Acid	*2: 27.3	0.92	Light colored, translucent products such as footwear, rubberized fabric, tire carcass, sidewall, and other non-staining type black products.

\*1: Aromatic Oil

\*2: Petroleum hydrocarbon · lubricating base oil.