

# SIBUR Synthetic Rubber SBR-1706 Grade A

Emulsion Styrene Butadiene Rubber

SIBUR

Message:

Oil-extended styrene butadiene synthetic rubber SBR-1706 is essentially a styrene (23.5%) and butadiene (76.5%) copolymer obtained by emulsification method with the use of resin/fatty soaps. The copolymer is filled with oil HI-AR or TDAE. The polymer contains no nitrosamines and substances that may become a source of nitrosamines.

Appearance - bale of dark-brown color; weight of a bale - (30 ± 1) kg; packing -a plastic container; shelf life - one (1) year since the date of manufacture

| General Information              |   |      |                 |
|----------------------------------|---|------|-----------------|
| Additive                         | Oxidation resistance (1500 to 3500 ppm) |      |                 |
| Features                         | Copolymer                               |      |                 |
|                                  | Antioxidation                           |      |                 |
| Appearance                       | Brown                                   |      |                 |
| Forms                            | bag                                     |      |                 |
| Physical                         | Nominal Value                           | Unit | Test Method     |
| Mooney Viscosity (ML 1+4, 100°C) | 48 - 51                                 | MU   | ASTM D1646      |
| Bound Styrene                    | 22.0 - 25.0                             | %    | Internal method |
| Oil Content - HI-AR or TDAE      | 14 - 17                                 | %    | Internal method |
| Organic Acid                     | 5.0 - 6.4                               | %    | ASTM D5774      |
| Soap - Organic Acid              |   | %    | ASTM D5774      |
| Solvent Extract Content          | 20 - 25                                 | %    | Internal method |
| Ash Content                      |   | %    | ASTM D5667      |
| Volatile Matter                  |   | %    | ASTM D5668      |
| Elastomers                       | Nominal Value                           | Unit | Test Method     |
| Tensile Stress (300% Strain)     | > 10.8                                  | MPa  | ASTM D3185      |
| Tensile Strength (Yield)         | > 21.6                                  | MPa  | ASTM D3185      |
| Tensile Elongation (Break)       | > 400                                   | %    | ASTM D3185      |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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