

Evoprene™ 003

Styrene Butadiene Styrene Block Copolymer

AlphaGary

Message:

The Evoprene™ Standard series is based mostly on SBS (styrene-butadiene -styrene) block copolymer rather than the hydrogenated SEBS type. This is a lower cost polymerso these grades are generally available at reduced cost compared with the Evoprene™ G or GC grades. SBS is the block copolymer form of SBR rubber and the properties generally mirror those of its vulcanisable cousin. Compounds produced from SBS block copolymer are suitable for a wide range of applications including extruded door, window and furniture seals and rubbing strips, mats, bump stops, grommets, coat hanger pads, toy components etc. Compounds remain flexible to very low temperatures (-60°C, - 75°F) and can be used at up to +55 - 60°C (130 - 140°F). A wide range of hardnesses is available from the mid 20s Shore A to about 60 Shore D. Many compounds are formulated for good ozone resistance but whilst grades pigmented black can be used for external application non black grades will quickly harden and discolour outside.

| General Information | | | |
|------------------------------|----------------------|-------|-------------|
| Features | Block Copolymer | | |
| | Good Colorability | | |
| | Good Processability | | |
| | Good Surface Finish | | |
| | High Clarity | | |
| | Ozone Resistant | | |
| | Recyclable Material | | |
| | Resilient | | |
| Uses | Grommets | | |
| | Seals | | |
| | Toys | | |
| RoHS Compliance | Contact Manufacturer | | |
| Appearance | Opaque | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.990 | g/cm³ | ISO 2782 |
| Molding Shrinkage | 0.50 to 1.2 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 40 | | ISO 868 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 1.50 | MPa | ISO 37 |
| Tensile Stress (Yield) | 5.50 | MPa | ISO 37 |
| Tensile Elongation (Break) | 670 | % | ISO 37 |
| Tear Strength ¹ | 28 | kN/m | ISO 34-1 |

| Compression Set (22°C, 72 hr) | 14 | % | ISO 815 |
|-------------------------------|-----------------------------|------|-----------------|
| Additional Information | Nominal Value | Unit | Test Method |
| M-S Flow | 2.45 | MPa | Internal Method |
| Ozone Resistance ² | crack | | Internal Method |
| Injection | Nominal Value | Unit | |
| Suggested Max Regrind | 20 | % | |
| Rear Temperature | 160 to 180 | °C | |
| Middle Temperature | 160 to 180 | °C | |
| Front Temperature | 160 to 180 | °C | |
| Nozzle Temperature | 150 to 170 | °C | |
| Processing (Melt) Temp | 220 | °C | |
| Mold Temperature | 15.0 to 30.0 | °C | |
| Injection Rate | Fast | | |
| Vent Depth | 0.020 to 0.050 | mm | |
| NOTE | | | |
| 1. | Method Ba, Angle (Unnicked) | | |
| 2. | 100 pphm, 20%str | | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT