

# SILVER® SA-1337

Styrene Butadiene Styrene Block Copolymer  
Guangdong Silver Age Sci & Tech. Co., Ltd

Message:

SILVER® SA-1000 elastomer is a kind of thermoplastic elastomer comprising of unsaturated styrene—butadiene rubber for indoor room temperature applications, such as toys, clear product, bearing seals and sole, which is similar to thermoset rubber in physical properties. And SA—1000 elastomer can be injected or extruded on thermoplastic equipment.

SA—1000 Elastomer (Unsaturated Styrene—butadiene Rubber)

Characteristics:  
similar to thermoset rubber in physical properties

Applications:  
toys, seal ring, cushion blocking, insole, sole, fender board, cap of pen, truckle, tire and so on

| General Information |                   |
|---------------------|-------------------|
| Features            | Copolymer         |
| Uses                | Caps              |
|                     | Footwear          |
|                     | Seals             |
|                     | Tires             |
|                     | Toys              |
| Appearance          | Natural Color     |
| Processing Method   | Extrusion         |
|                     | Injection Molding |

| Physical                                  | Nominal Value | Unit              | Test Method |
|---|---------------|-------------------|-------------|
| Specific Gravity                          | 1.07          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/2.16 kg) | 8.3           | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value | Unit              | Test Method |
| Durometer Hardness (Shore A, 3 sec)       | 85            |                   | ASTM D2240  |
| Mechanical                                | Nominal Value | Unit              | Test Method |
| Tensile Strength <sup>1</sup>             | 7.80          | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break)   | > 150         | %                 | ASTM D638   |
| Injection                                 | Nominal Value | Unit              |             |
| Processing (Melt) Temp                    | 160 to 200    | °C                |             |
| Extrusion                                 | Nominal Value | Unit              |             |
| Melt Temperature                          | 160 to 200    | °C                |             |
| NOTE                                      |               |                   |             |
| 1.  | 500 mm/min    |                   |             |
| 2.  | 500 mm/min    |                   |             |

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