

Dynasol Solprene® 416 Thermoplastic Rubber SBS Dry

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE

Material Notes:

Solprene 416 is a radial styrene/butadiene block copolymer having 30% of styrene content, most of it forming a polystyrenes block which gives the polymer a thermoplastic behavior. It develops properties of vulcanized rubber yet not requiring vulcanization. It is protected with a non staining antioxidant system; FDA approved, suitable for food contact applications and is essentially gel free with a very clear color.

Solprene 416 is used as elastomeric modifier for asphalt and plastics, as ingredient of soling formulations and as base for pressure sensitive adhesives. It is available as free flowing porous crumb for easy handling and dissolution, packaged in standard paper bags, super sacs and cardboard boxes. Applications: Adhesives Plastic modification Information provided by Dynasol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dynasol-Solprene-416-Thermoplastic-Rubber-SBS-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------|--|--|---|
| Specific Gravity | 0.940 g/cc | 0.940 g/cc | DIN-53479 |
| Volatiles | <= 0.75 % | <= 0.75 % | ASTM D-5668 |
| Brookfield Viscosity | 30000 cP | 30000 cP | 25% toluene solution; MA 04-3-064 |
| Viscosity Measure | 11 cSt | 11 cSt | Toluene solution viscosity 5,23%; NM 300-11 |
| Melt Index of Compound | <= 0.50 g/10 min @Load 5.00 kg, Temperature 200 °C | <= 0.50 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D-1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|-----------|-------------|
| Hardness, Shore A | 78 | 78 | ASTM D-2240 |
| Tensile Strength at Break | 17.0 MPa | 2470 psi | ASTM D-412 |
| Elongation at Break | 800 % | 800 % | ASTM D-412 |
| 300% Modulus | 0.00270 GPa | 0.392 ksi | ASTM D-412 |

| Chemical Properties | Metric | English | Comments |
|---------------------|---------|---------|-------------------------|
| Styrene Content | >= 28 % | >= 28 % | Block; NM-202-07 |
| | 30 % | 30 % | on polymer; ASTM D-5775 |

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