

Dynasol Solprene® 412 Thermoplastic Elastomer

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

Material Notes:

Solprene 412 is a radial oil extended styrene butadiene block copolymer having 30% of styrene content, most of it forming a polystyrene block which gives the polymer a thermoplastic behavior. It is oil-extended with 6 phr of Paraffinic oil. It develops properties of vulcanized rubber yet not requiring vulcanization. It is protected with a non staining antioxidant system and is essentially gel free with a very clear color. Solprene 412 is used as elastomeric modifier for asphalt and in shoe sole compounding, injection molding and other thermoplastic crafts. It is available as free flowing pellets in standard paper bags, super-sacs and Gaylord boxes. Information provided by Dynasol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dynasol-Solprene-412-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	DIN 53479
Viscosity	25.38 cP	25.38 cP	Toluene solution, 5.23%; NM 300-11
Brookfield Viscosity	18000 cP	18000 cP	0.25; ASTM D2994
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 D1238
Collected Volatile Condensable Material	<= 1.0 %	<= 1.0 %	ASTM D1416

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	Shore A2; ASTM D2240
Tensile Strength at Break	14.4 MPa	2090 psi	ASTM D412
Elongation at Break	675 %	675 %	ASTM D412
300% Modulus	0.00290 GPa	0.421 ksi	ASTM D412

Descriptive Properties	Value	Comments
Antioxidant Content	1.1 %	NM 300-52
Paraffinic Oil Content	4-8 phr	NM 300-54
Polystyrene	Min 28 %	NM 202-27

Contact Songhan Plastic Technology Co.,Ltd.Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China