

## Dynasol Solprene® 303 Random-Block Copolymer

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Styrene Butadiene Rubber

### Material Notes:

Solprene 303 is a linear random-block styrene-butadiene copolymer with 46% styrene content, 11% present as a polystyrene block. S-303 is used in vulcanized microcellular shoe soles, it provides hardness and can be highly filled, it can be blended with other rubbers to reduce die swell and increase processability in extruded and molded goods. It can replace SBR 1009 and 1018 types. It is packaged in bales wrapped in low melting point polyethylene film. Information provided by Dynasol.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dynasol-Solprene-303-Random-Block-Copolymer.php](http://www.lookpolymers.com/polymer_Dynasol-Solprene-303-Random-Block-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in <sup>3</sup>	DIN 53479
Mooney Viscosity	48	48	ML 1+4; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
	<= 102	<= 102	Compounded, ML 1+4; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
Ash	<= 0.20 %	<= 0.20 %	ASTM D1416
Collected Volatile Condensable Material	<= 0.75 %	<= 0.75 %	ASTM D1416

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 15.0 MPa	>= 2180 psi	Compounded, 35 mins.; ASTM D3185
Elongation at Break	300 %	300 %	Compounded; ASTM D3185
300% Modulus	0.0170 GPa	2.47 ksi	Compounded, 35 mins.; ASTM D3185

Descriptive Properties	Value	Comments
Antioxidant Content	0.4 %	NM 300-52
Bound Styrene	46 %	NM 202-27
Color	Max 3	NM 300-39
Free Soap	Max 0.75 %	ASTM D1416
Organic Acid	Max 0.75 %	ASTM D1416
Polystyrene	11 %	NM 202-27

## **Contact Songhan Plastic Technology Co.,Ltd.**

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