

Dynasol Calprene® 501 Thermoplastic Rubber SBS Dry

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

Material Notes:

Calprene 501 is a 69/31 Butadiene/Styrene thermoplastic copolymer, polymerized in solution and having a linear structure. This product is available in: C 501 porous crumb C 501C porous pellet C 501M powder form dusted with amorphous silica

Applications: Bitumen modification, Footwear, Mechanical rubber goods, Plastic modification, Adhesives

Information provided by Dynasol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dynasol-Calprene-501-Thermoplastic-Rubber-SBS-Dry.php

Physical Properties	Metric	English	Comments
Volatiles	<= 0.40 %	<= 0.40 %	ASTM D-5668
Viscosity	1600 cP @Temperature 180 °C	1600 cP @Temperature 356 °F	Modified Bitumen Property in waterproof membranes (150/200 bitumen + 12% polymer)
Brookfield Viscosity	5000 cP	5000 cP	25% toluene solution; MA 04-3-064
Viscosity Measure	13 cSt	13 cSt	Toluene solution viscosity 5,23%; MA 04-3-003
Ash	<= 0.35 %	<= 0.35 %	ASTM D-5667

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	76	76	ASTM D-2240
Penetration	<= 55	<= 55	at 25°C dmm, Modified Bitumen Property in waterproof membranes (150/200 bitumen + 12% polymer); ASTM D-5-86

Thermal Properties	Metric	English	Comments
Ring & Ball Softening Point	>= 115 °C	>= 239 °F	Modified Bitumen Property in waterproof membranes (150/200 bitumen + 12% polymer); ASTM D-36

Chemical Properties	Metric	English	Comments
Styrene Content	31 %	31 %	on polymer; ASTM D-5775

Descriptive Properties	Value	Comments
Cold Flexibility, °C max	-35	
Hunterlab color, max	2	
Insolubles in toluene, 325 mesh, % max	0.1	

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