

Dow SE BR-1203H Stereospecific high cis-1,4 Polybutadiene (BR)

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

Material Notes:

SE BR-1203H is manufactured by a solution process using cobalt catalyst which produces polymers with a very light color and low ash content. A non-staining stabilizer is added during the production process. BR-1203H is suitable for tires, conveyor belting, footwear and mechanical goods. It offers a unique property combination of good abrasion resistance, particularly at high severity, excellent groove crack resistance and good heat aging. Other features include high resilience, low hysteresis, good set properties and a low glass transition point which results in better low temperature performance. BR-1203H is able to accept high filler and oil loadings without significant loss of properties. It may be blended with natural rubber and styrene butadiene (SBR), isoprene (IR), nitrile (NBR), or polychloroprene (CR) synthetic rubbers. BR-1203H is supplied in bales weighing ca. 34 kg. Bales are wrapped in 50 micron PE or EVA film. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-SE-BR-1203H-Stereospecific-high-cis-14-Polybutadiene-BR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	6.4	6.4	[min]; ts1, (1 RAD); ASTM D2084
	@Temperature 160 °C	@Temperature 320 °F	
	10	10	[min]; T50, (1 RAD); ASTM D2084
	@Temperature 160 °C	@Temperature 320 °F	
	10.8	10.8	[dNm]; ML, (1 RAD); ASTM D2084
	@Temperature 160 °C	@Temperature 320 °F	
Mooney Viscosity	13.1	13.1	[min]; T90, (1 RAD); ASTM D2084
	@Temperature 160 °C	@Temperature 320 °F	
	42	42	[dNm]; MH, (1 RAD); ASTM D2084
	@Temperature 160 °C	@Temperature 320 °F	
	48	48	[MU]; ML 1+4; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
Ash	0.030 %	0.030 %	ASTM D1416
Collected Volatile Condensable Material	0.20 %	0.20 %	ASTM D1416
Storage Temperature	<= 30.0 °C	<= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	16.8 MPa	2440 psi	Die C (35 min / 145°C); ASTM D412
	9.30 MPa	1350 psi	

Tensile Strength, Yield Mechanical Properties	Metric @ Strain 300 %	English @ Strain 300 %	ASTM D412 Comments
Elongation at Break	490 %	490 %	ASTM D412

Processing Properties	Metric	English	Comments
Shelf Life	>= 12.0 Month	>= 12.0 Month	

Descriptive Properties	Value	Comments
Accelerator (TBBS) wt%	0.9	ASTM D3189
Carbon Black wt%	60	ASTM D3189; IRB 6
Cis-1,4 Content %	97	Supplier Method (NMR)
Dry Gel Content mg/kg	200	Supplier Method
Naphthenic oil type 103 wt%	15	ASTM D226
Stearic Acid wt%	2	ASTM D3189
Sulfur content, %	1.5	ASTM D3189
Zinc Oxide wt%	3	ASTM D3189

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