

LG Chemical BR 1280 Polybutadiene Polymer

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

Material Notes:

BR 1280 is high cis- 1,4 polybutadiene polymer produced by a solution polymerization process polymerization process employing a stereospecific catalyst to control microstructure, molecular weight and molecular weight distribution. This grade is stabilized with a non-staining, non- discoloring antioxidant allowing for its physical property persistence during storage and application. BR 1280, having very high cis content, have a good abrasion resistance, flex cracking resilience and low temperature properties. Especially, BR 1280 has very good storage stability because BR 1280 has very low cold flow property than BR 1280. And it is excellent for dispersion of filler, shorter mixing cycle, resistance,improved milling and extrusion, lower power requirements for processing.Application: BR 1280 is used in tire tread, carcass compounds, shoe sole, V- belts, conveyor belt coverings,hose and tube covers, solid golf balls and various industrial products.CAS No: 9003-17-2Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-BR-1280-Polybutadiene-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	
Volatiles	0.30 %	0.30 %	
Mooney Viscosity	45 @Temperature 100 Â°C	45 @Temperature 212 Â°F	ML 1+4
Ash	0.050 %	0.050 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.7 MPa @Temperature 145 Â°C, Time 2100 sec	2420 psi @Temperature 293 Â°F, Time 0.583 hour	cured; ASTM D412
Elongation at Break	450 % @Temperature 145 Â°C, Time 2100 sec	450 % @Temperature 293 Â°F, Time 0.583 hour	cured; ASTM D412
300% Modulus	0.00981 GPa @Temperature 145 Â°C, Time 2100 sec	1.42 ksi @Temperature 293 Â°F, Time 0.583 hour	cured; ASTM D412

Descriptive Properties	Value	Comments
cis contents	0.96	
Color	Light Yellow	
Components	BR1280	100, ASTM D3189

Descriptive Properties	Value HAT (IRB#7)	Comments 60, ASTM D3189
	Naphthenic Oil	15, ASTM D3189
	Stearic Acid	2, ASTM D3189
	Sulfur	1.5, ASTM D3189
	TBBS	0.9, ASTM D3189
	ZnO	3, ASTM D3189
Extractables	0.011	
Rheometer	11.6 min	t'90, 160Â°C, 1Â° Arc, ASTM D5289
	20.5 lb-in	MH, 160Â°C, 1Â° Arc, ASTM D5289
	3.0 min	ts1, 160Â°C, 1Â° Arc, ASTM D5289
	3.6 lb-in	ML, 160Â°C, 1Â° Arc, ASTM D5289
	7.9 min	t'50, 160Â°C, 1Â° Arc, ASTM D5289

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