

Styron Buna® cis 132 Schkopau High-cis Polybutadiene Rubber (PBR)

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

Material Notes:

Composition: Buna® cis 132 Schkopau is a stereospecific polybutadiene with a high 1,4-cis content. It is manufactured by a solution process using an organo-metallic nickel catalyst which produces a consistent light coloured polymer with low ash content. Buna® cis 132 Schkopau contains a non-staining stabiliser.

Application: Buna® cis 132 Schkopau is widely used in the tyre industry but also in the production of conveyor belts and other rubber articles which are exposed to high cyclical stress. It offers good abrasion resistance, high resilience, low hysteresis, and a low glass transition temperature. Buna® cis 132 Schkopau offers excellent processability and may be blended with natural rubber and styrene butadiene (SBR), isoprene (IR), nitrile (NBR), or polychloroprene (CR) synthetic rubbers. Due to its non-staining stabiliser Buna® cis 132 Schkopau is suitable for light-coloured rubber articles also when compounded with selected thermoplastics.

Test Formulation (ASTM D 3189 based on IRB7 black): Polymer - 100.0 parts by mass IRB7 industry reference oil furnace carbon black - 60.0 parts by mass Plasticiser - 15.0 parts by mass Zinc oxide - 3.0 parts by mass Sulphur - 1.5 parts by mass Stearic acid - 2.0 parts by mass N-tert-butyl-2-benzothiazole sulphenamide (TBBS) - 0.9 parts by mass

Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Buna-cis-132-Schkopau-High-cis-Polybutadiene-Rubber-PBR.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	
Volatiles	0.25 % @Treatment Temp. 105 °C, Time 3600 sec	0.25 % @Treatment Temp. 221 °F, Time 1.00 hour	5 g in hot air oven; ASTM D5668
Mooney Viscosity	45 @Temperature 100 °C	45 @Temperature 212 °F	[MU] ML 1+4; ASTM D1646
Ash	0.050 %	0.050 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	17.6 MPa @Treatment Temp. 145 °C, Time 2100 sec	2550 psi @Treatment Temp. 293 °F, Time 0.583 hour	Cure; ASTM D412
Elongation at Break	503 %	503 %	ASTM D412
300% Modulus	0.00920 GPa	1.33 ksi	ASTM D412

Descriptive Properties	Value	Comments
Composition	0.95	Cis-1,4 content, FTIR
Gel rating	0.1	

Descriptive Properties Rheometer	Value 10.4 min	Comments t_c (90), ASTM D5289
	17.4 dNm	MH, ASTM D5289
	2.9 dNm	ML, ASTM D5289
	5.2 min	t_s>2, test temperature 160Â°C; ASTM D5289
	7 min	t_c (50), ASTM D5289

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