

## Dow Buna® cis 132 High-cis polybutadiene rubber (nickel catalyzed) for tires and rubber articles

Category : Polymer

### Material Notes:

Buna® cis 132 - Schkopau is a stereospecific polybutadiene with high cis-1,4 content. It is manufactured by a solution process using an organo-metallic catalyst which produces a consistent light colored polymer with low ash content. It contains a non-staining stabilizer. Buna® cis 132 is widely used in the tire industry but also in the manufacture of conveyor belts and other rubber articles which are exposed to high stress. It offers good abrasion resistance, high resilience, low hysteresis, and low glass transition point which results in better low temperature performance. Buna® cis 132 offers excellent processability and may be blended with natural rubber and styrene butadiene (SBR), isoprene (IR), nitrile (NBR), or polychloroprene (CR) synthetic rubbers. The non-staining stabilizer allows manufacture of colored rubber articles also when compounded with selected thermoplastics. It is supplied in bales weighing 25 kg. Bales are wrapped in 50 micron PE film. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-Buna-cis-132-High-cis-polybutadiene-rubber-nickel-catalyzed-for-tires-and-rubber-articles.php](http://www.lookpolymers.com/polymer_Dow-Buna-cis-132-High-cis-polybutadiene-rubber-nickel-catalyzed-for-tires-and-rubber-articles.php)

Physical Properties	Metric	English	Comments
Viscosity Measurement	3.1	3.1	[min]; ts1; ASTM D5289
	6.9	6.9	[min]; t <sub>c</sub> (50); ASTM D5289
	10.5	10.5	[min]; t <sub>c</sub> (90); ASTM D5289
	16	16	[dNm]; MH; ASTM D5289
	2.6	2.6	[dNm]; ML; ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
Mooney Viscosity	45	45	[MU]; ML 1+4; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
Ash	0.050 %	0.050 %	ASTM D5667
Collected Volatile Condensable Material	0.25 %	0.25 %	ASTM D5668

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	17.5 MPa	2540 psi	Cure: 35 min at 145°C; ASTM D412
Tensile Strength, Yield	9.00 MPa	1310 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	510 %	510 %	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 7
Cis-1,4 Content %	95	Supplier Method (FTIR)
Stearic Acid wt%	2	ASTM D3189
Sulfur content, %	1.5	ASTM D3189
Zinc Oxide wt%	3	ASTM D3189

## Contact Songhan Plastic Technology Co.,Ltd.

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