

# SIBUR Synthetic Rubber SBR-1712 HI-AR

## Grade A

Styrene Butadiene Rubber

SIBUR, LLC

Message:

Oil-extended styrene butadiene synthetic rubber SBR-1712 HI-AR is essentially a styrene (23.5%) and butadiene (76.5%) copolymer obtained by emulsification method with the use of resin/fatty soaps. The copolymer is filled with oil HI-AR.  
Product characteristics: Appearance - bale of dark-brown color; weight of a bale - (30 ± 1) kg; packing - a plastic container; shelf life - one (1) year since the date of manufacture

General Information			
Features	Copolymer		
Appearance	Brown		
Forms	Bale		
Physical	Nominal Value	Unit	Test Method
Mooney Viscosity (ML 1+4, 100°C)	46 to 52	MU	ASTM D1646
Bound Styrene	22.5 to 24.5	%	Internal Method
Antioxidant Additive - VS-1	0.30 to 0.70	%	Internal Method
Ash Content	< 0.60	%	ASTM D5667
Oil Content <sup>1</sup>	26 to 29	%	ASTM D5774
Organic Acid	4.2 to 5.8	%	ASTM D5774
Soap - Organic Acid	< 0.30	%	ASTM D5774
Solvent Content - extract	29 to 35	%	Internal Method
Volatile Matter	< 0.60	%	ASTM D5668
Rheometer MDR 2000 <sup>2</sup>			ASTM D5289
Maximum Torque (MH) : 160°C	12.0 to 18.5	dNm	
Minimum Torque (ML) : 160°C	1.40 to 3.00	dNm	
Prevulcanization start time (ts1) : 160°C	3.2 to 6.5	min	
Time to 50% vulcanization (T'50) : 160°C	6.5 to 10.5	min	
Time to 90% vulcanization (T'90) : 160°C	12.0 to 18.5	min	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	> 9.80	MPa	ASTM D3185
Tensile Strength (Yield)	> 18.0	MPa	ASTM D3185
Tensile Elongation (Break)	> 380	%	ASTM D3185
NOTE			
1.	Oil type: HI-AR		
2.	deformation of 0.5°, MH at 30 min		

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