



SSBR-4430 Polymer Data

Polymerization System	Solution Polymerization, styrene butadiene random copolymer
Stabilizer	Non-staining
Characteristics	Superior processing, High strength, better resilience and rolling resistance
Use	High performance tire tread, Industry, sports and other compounding goods

<u>Polymer Properties</u>	<u>Specification Range</u>		<u>Test Method</u>
	<u>min</u>	<u>max</u>	
Mooney Viscosity, ML ₁₊₄ *	50	70	ASTM D-1646
Bound Styrene (%)	38.5	41.5	K62-TPPC-21
1,2-Vinyl** (%)	52.0 typical		K62-TPPC-21
Volatile matter (%)	----	1.0	K62-TPFP-01
Ash (%)	----	0.5	ASTM D-5667
Oil content (%)	25.8	28.8	ASTM D-5774

*ML₁₊₄, 100°C, Massed
**Vinyl content in Butadiene

<u>COMPOUND PROPERTIES</u>	Curing @145°C			<u>Test Method</u>	
Tensile Strength	35'	(kg/cm ²)	80	----	ASTM D-412
Elongation	35'	(%)	300	----	ASTM D-412
300% Modulus	35'	(kg/cm ²)	40	----	ASTM D-412
<u>Test Recipe</u>	<u>Parts</u>				
SSBR-4430	137.5				
N330	68.75				
S.A	1				
ZnO	3				
CZ	1.38				
S	1.75				
Total	213.4				