



NBR 2645

Acrylonitrile-butadiene rubber

- ▶ NBR 2645 is essentially an acrylonitrile (27-30%) and 1,3-butadiene copolymer obtained by emulsion polymerization method with the use of fatty acid soaps as emulsifier in accordance with the ecologically clean technology. Medium content of acrylonitrile, heightened oil resistance.
- ▶ Product characteristics: appearance – bales from light-yellow to pink or light-beige color; weight of a bale $30 \pm 0,5$ kg;
- ▶ Shelf life is 1 year since the date of manufacture. Storage conditions: at the temperature not higher than $30\text{ }^{\circ}\text{C}$, in place protected from direct sunlight and atmospheric precipitation.
- ▶ Package: plywood 1,26 mt or plastic container 0,54 mt.

<i>Parameter</i>	<i>NBR 2645</i>	<i>Test method</i>
Mooney viscosity MML 1+4 (100 °C)	42-48	ASTM D 1646
Volatile matter content, wt %	$\leq 0,8$	ASTM D 5668
Ash content, wt %	$\leq 0,5$	ASTM D 5667
Acrylonitrile content, wt %	27-30	method of supplier
<i>ASTM D 3187 (method A), 145 °C × 50 min</i>		
Tensile stress at 300 % elongation, MPa	$\geq 8,8$	ASTM D412
Tensile strength, MPa	$\geq 22,5$	ASTM D412
Ultimate elongation, %	≥ 450	ASTM D412
<i>Curing characteristics of rubber compound</i> <i>Rheometer MDR 2000, measurement conditions: 160 °C, deformation of 0.5°, MH at 30 min</i>		
Minimum torque (ML), dNm	0,9-2,1	ASTM D 5289
Maximum torque (MH), dNm	11,6-15,8	ASTM D 5289
Scorching time (ts1), min	2,0-4,6	ASTM D 5289
Time to 50% of full cure (t 50), min	3,3-6,1	ASTM D 5289
Time to 90% of full cure (t 90), min	10,8-16,2	ASTM D 5289

Technical support service: e-mail: techservice@sibur.ru