



NBR 1855

Acrylonitrile-butadiene rubber

- ▶ NBR 1855 is essentially an acrylonitrile (17-20%) 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. Low content of acrylonitrile, good frost-resistance, satisfactory oil resistance.
- ▶ Product characteristics: appearance – bales from light-yellow to pink 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 1855</i>	<i>Test method</i>
Mooney viscosity MML 1+4 (100 °C)	52-58	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 %	17-20	method of supplier
<i>ASTM D 3187 (method A), 145 °C × 50 min</i>		
Tensile stress at 300 % elongation, MPa	$\geq 6,9$	ASTM D412
Tensile strength, MPa	$\geq 17,6$	ASTM D412
Ultimate elongation, %	≥ 400	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	1,1-2,7	ASTM D 5289
Maximum torque (MH), dNm	10,1-13,7	ASTM D 5289
Scorching time (ts1), min	2,2-5,0	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	6,7-10,1	ASTM D 5289

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