SIBUR

IR SKI-3
Isoprene rubber

► **Cis-isoprene synthetic rubber with a minimum content of 1,4-cis bonds to 96% is a product of isoprene polymerization in solution in the presence of catalyst based on titanium compounds. It contains staining antioxidant.**

► **Product characteristics: appearance – bale from light gray to dark brown color; weight of a bale 30 ± 1 kg;**

► **Shelf life is 2 years from the date of manufacture. Storage conditions: below 40 °C, in place protected from direct sunlight and atmospheric precipitation.**

► **Package: plywood 1,26 MT, metal container MB-5 1,26 MT or plastic container 0,54 MT.**

Parameter	*IR SKI-3*		*Test method*
	group I	*group II*	
Mooney viscosity UML 1+4 (100 °C)	76-85	67-76	ASTM D 1646
Stearic acid, wt %	0,6-1,4	0,6-1,4	ASTM D 5774
Volatile matter, wt %	≤ 0,8	≤ 0,8	ASTM D 5668
Ash, wt %	≤ 0,6	≤ 0,6	ASTM D 5667
Staining Antioxidant, wt % (CAS №82209-88-9)	0,15-0,40	0,15-0,40	method of supplier
Metals, % iron titanium	 ≤ 0,005 ≤ 0,06	 ≤ 0,005 ≤ 0,06	method of supplier
Stress Strain properties in standard recipe on ASTM D 3185 (method A)			
Tensile stress at 300 % elongation, MPa	≥ 7,0	≥ 7,0	ASTM D 412
Tensile strength, MPa	≥ 27,5	≥ 27,0	ASTM D 412
Ultimate elongation, %	≥ 500	≥ 500	ASTM D 412
Curing characteristics of rubber compound Rheometer MDR 2000, measurement conditions: 160 °C, deformation of 0.5°, MH at 30 min			
Minimum torque (ML), dNm	0,90-2,20	0,90-2,20	ASTM D 5289
Maximum torque (MH), dNm	11,0-16,0	11,0-16,0	ASTM D 5289
Scorch time (ts1), min	1,4-2,6	1,4-2,6	ASTM D 5289
Time to 50% of full cure (t 50), min	3,2-4,5	3,2-4,5	ASTM D 5289
Time to 90% of full cure (t 90), min	5,9-8,5	5,9-8,5	ASTM D 5289