



These standards are applied to natural rubber processed to produce crumb rubber as rectangular bale from estate latex, rubber sheet, fresh and field coagulum.

**WEIGHT AND DIMENSION**

Natural rubber in form crumb is pressed into rectangular bale SIR (Standard Indonesian Rubber), the size : length 675 mm (+25), wide 355 mm (+10), thick 170 mm and weight 33.3 or 35 kg.



**TECHNICAL REQUIREMENT**

Specification of Standard Indonesian Rubber set as follow :

No.	Parameter/ Characteristic	Type of Quality Raw material Unit	SPECIFICATIONS									Test Method
			SIR LoV	SIR 3CV	SIR 3L	SIR 3WF	SIR 5	SIR 10	SIR 10 CV/VK	SIR 20	SIR 20 CV/VK	
			Estate Latex				Rubber Sheet and/or Fresh Coagulum	Field Coagulum/rubber sheet				
1.	Dirt content (w/w), max.	%	0.02	0.02	0.02	0.02	0.04	0.08	0.08	0.16	0.16	SNI 8383:2017
2.	Ash content (w/w), max.	%	0.50	0.50	0.50	0.50	0.50	0.75	0.75	1.0	10	SNI ISO 247:2012
3.	Nitrogen content (w/w), max.	%	0.30	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0,60	SNI ISO 1656:2016
4.	Volatile matter (w/w), max.	%	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	080	SNI 8356:2017
5.	PO, min	–	–	–	30	30	30	30	–	30	–	SNI 8425:2017
6.	PRI, min	–	–	60	75	75	70	50	50	40	40	SNI ISO 2930:2013
7.	Lovibond Color, max.	index	–	–	6	–	–	–	–	–	–	SNI ISO 4660:2013
8.	Mooney Viscosity ML (1' + 4') 100°C	–	55 ± 10 <sup>a)</sup>	60 ± 5 <sup>a)</sup>	–	–	–	–	60 <sup>+7<sup>b)</sup></sup> <sub>-5</sub>	–	60 <sup>+7<sup>b)</sup></sup> <sub>-5</sub>	SNI 8384:2017
9.	Gel content, max.	%	4 <sup>a)</sup>	–	–	–	–	–	–	–	–	SNI 8385:2017

Note : a) Other viscosity ranges can be determined based on agreements between manufacturers and consumers; b) The Mooney viscosity range for this grade is not fixed and may change, for example, due to the material handling age. Although viscosity is specifically controlled at the final manufacturer's level within the range of 65+7/-5. Other viscosity ranges can be determined based on agreements between manufacturers and consumers, c) Other gel content levels can be established through agreements between manufacturers and consumers. Source for the test method: SNI1903:2017, BSN (2017)

**PACKAGING, LABELING, and STORAGE**

Each bale SIR packed with transparent plastic polyethylene (PE) with specifications :

- ⦿ Thickness : 30 ± 10 μm (0.03 ± 0.01 mm)
- ⦿ Maximum melting point : 108°C
- ⦿ Relative density : 0.92

or in any other form agreed by the buyer and seller. Markings on the plastic bale cover emblem "SIR", code of producer (consist of 3 letters), type of quality, company name, and

sign standards. The addition of other signs written based on agreement the buyer and seller. A total of 36 bale SIR 6 stacks arranged in a palette of metal (metal box) or other containers. SIR in the palette is stored in a safe place in a warehouse to avoid direct sunlight, free of insects, not humid, flood free, and others.