

**ISOPRENE RUBBER (IR)  
GRADE IR-970**

Isoprene rubber (IR) grade IR-970 is a product of solution polymerization of isoprene over titanium-based catalyst.

Application: manufacture of rubber goods, tires and other products.

**Chemical name:** Polymer of 1-methylbutadi-1,3-ene

**Empirical Formula:**  $[C_5H_8]_n$

**Standard Specification::** TU 20.17.10-141-05766801-2018

**Product Characteristics**

Property	Values by groups	Test Methods
1. Mooney Viscosity ML 1+4 (100°C), MU, within	65-74	para. 4.2 of TU or ASTM D 1646
2. Viscosity spread in a lot Mooney, MU, max	8	para. 4.2 of TU
3. Loss on drying, wt %, max	0.60	para. 4.3 of TU or ASTM D 5668
4. Ash, wt %, max	0.50	para. 4.4 of TU or ASTM D 5667
5. Metals, wt %, max: iron titanium	0.004 0.06	para. 4.5 of TU
6. Staining antioxidant, wt %, within	0.20-0.40	para. 4.6 of TU
7. Stearic acid, wt %, within	0.6-1.4	para. 4.8 of TU
8. Curing characteristics, within:	Not rated, determination is mandatory	para 4.9 of TU
- minimum torque $M_L$ , dNm		
- maximum torque, $M_H$ , dNm		
- time to cure start, tS1, minutes		
- time to 50% cure, t'(50) minutes		
- time to 90% cure, t'(90) minutes		

**Product form:** 30 ± 1 kg bales

**Packaging:** Bales are wrapped in polyethylene film. Each bale wrapped in film shall be packed in:  
 - woven polypropylene bags;  
 - polymer container;  
 - metal containers of type MV-5 (or its analogs).

Pallet box internal surface is covered with PE film or PE bag (liner) to protect from contamination; after loading the box is closed and wrapped with belt. Two shipping labels are applied to each pallet box.

**Transportation:** All types of covered vehicle transportation in accordance with the applicable shipping rules.

**Storage:** Rubber packed in:

- woven polypropylene bags are kept in stacks of max 1.2 m height.
- polymer containers are stored in stacks of no more than 3 deck in height;
- metal containers are stored in stacks up to 5 deck in height;

Packaged product is stored in the warehouse of the manufacturer or consumer in places protected from direct sunlight, atmospheric precipitation and pollution.

Guarantee shelf life – 2 year from the date of production.