

STYRENE - BUTADIENE RUBBER - HIPREN[®] EM

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It is produced in the HIP-Petrohemija under the licence from Bunawerke Hülls (Germany) and engineering made by Lurgi (Germany).

PACKAGING AND STORAGE

HIPREN is produced in the form of bales 30.0x0.5kg each. The bales are wrapped in a PE film foil and they can be processed together with it. The bales are laid into wooden boxes, covered inside with cardboard and polyethylene sack, which protect bales in the box. One box contains 30 bales with total polymer weight of 900 kg.

Packaging of bales in metal boxes is also available Bales are wrapped in a PE film foil and they can be processed together with it. The bales are laid into metal box - pallets with polyethylene bag in it, which protect bales in the box. One box contains 33 or 40 bales with total polymer weight of 990 or 1200 kg.

The packed rubber is protected against contamination and atmospheric moisture. It is supposed to be stored in a dry place on temperatures below 300C and not exposed to direct sunlight. The product shall retain its properties for not longer than one year period provided these conditions are fulfilled at any time during this period.

The manufacturer shall not be held responsible for any damage resulting from inappropriate storage of the product.

PACKAGING FILM

Property	Method	Unit	Standard value	Tolerance values
Thickness	ISO 4593	µm	50	40-60
Vicat softening point	ASTM D 1525	°C	91.5	89-94

REACH

HIP-Petrohemija with applying the existing standards ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2011 follows completely the highest standards by which human health and safety protection and environmental protection are regulated and herewith it expresses its intention to meet all the requirements which are prescribed by REACH regulation.

Registration of all the substances of potential export interest has been made with European Agency for Chemicals in Helsinki, in accordance with the prescribed deadlines, therefore in this way it enables undisturbed placement and sale of HIP-Petrohemija's products without any limits at EU Market.

As the Only Representative for HIP-Petrohemija in EU, according to Article 8 of REACH regulation, [ReachLaw Ltd, Helsinki, Finland](#) has been designated.

Property	Test Method	Unit	1500T	1502T	1723	
Physical - chemical	Mooney viscosity ML _{1+4/100C}	ASTM D 1646	MU	51	51	49
	Volatile matter	ASTM D 5668	% weight	0.5	0.5	0.5
	Ash	ASTM D 5667	% weight	0.40	0.40	0.40
	Bound styrene	ASTM D 5775	% weight	23.5	23.5	23.5
	Soap	ASTM D 5774	% weight	0.50	0.50	0.50
	Organic acid	ASTM D 5774	% weight	6.6	6.0	4.5
	ETA extract	ASTM D 5774	% weight	-	-	32.0
Vulcanisation	Stabilizer	Internal	% weight	0.4	0.1-1.0	0.4
	M _L	ASTM D 5289	dNm	2.0-3.0	2.0-3.0	2.4
	M _H	ASTM D 5289	dNm	19.5-23.5	19.5-23.5	16.5
	t _{s1}	ASTM D 5289	min	2.7-4.7	2.2-4.2	3.5
	t _{50%}	ASTM D 5289	min	8.0-12.0	6.5-10.5	6.8
Compound	t _{90%}	ASTM D 5289	min	15.5-20.5	13.0-18.0	13.0
	Tensile strength at break	ASTM D 412	MPa	min 23	min 22	min 19.0
	Elongation at break	ASTM D 412	%	min 400	min 350	min 350
	Modulus 300%	ASTM D 412	MPa	11.7-16.7	14.4-19.4	13.7
	Rebound resilience	ASTM D 7121	%	min 40	min 40	min 30
Hardness	ASTM D 2240	°ShA	63-71	66-74	64	

APPLICATION

1500T	Appropriate for rubber compounds used in the production of car tyres and inner tubes, footwear, cables, conveyor belts, and various technical rubber articles
1502T	Appropriate for rubber compounds used in the production of floor coverings, bicycle tyres, children toys, hosepipes, cables, footwear and various technical rubber articles having light colour shades
1723	Appropriate for rubber compounds used in the production of car tyres and inner tubes, conveyor belts, shoes and various technical rubber articles

The values given in this review are typical and are provided for guidance purposes only.

TYPICAL VULCANISATION PROPERTIES:

Standard test recipe: ASTM D 3185
 Mixing procedure: ASTM D 3182
 Carbon black: IRB 8 (types 1500T, 1502T); IRB 7 (type 1723)
 Curemeter test: Rheometer MDR 2000
 Conditions: Temperature 160°C, Arc 0.5°

CHARACTERISTICS OF COMPOUND:

Conditions:
 Vulcanisation temperature 145°C
 Vulcanisation time 35 min
 Test specimen S1



HIPREN EM 1502T has Health Certificate issued by Institute for Health Protection of Serbia.

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