

STYRENE - BUTADIENE RUBBER - HIPREN® EM

Property		Test Method	Unit	1500T	1502T	1723
Physical - chemical	Mooney viscosity ML _{1+4/100C}	ISO 289	ML	51	51	49
	Volatile matter	ISO 248	% weight	0,5	0,5	0,5
	Ash	ISO 247	% weight	0,40	0,40	0,40
	Bound styrene	ISO 2453	% weight	23,5	23,5	23,5
	Soap	ISO 7781	% weight	0,5	0,50	0,50
	Organic acid	ISO 7781	% weight	6,6	6,0	4,5
	ETA extract	ASTM D 5774	% weight	-	-	32,0
	Stabilizer	Internal	% weight	0,4	0,1-1,0	0,4
Vulcanisation	M _L	ISO 6502	dNm	2,0-3,0	2,0-3,0	2,4
	M _H	ISO 6502	dNm	19,0-23,0	20,5-24,5	16,5
	t _{s1}	ISO 6502	min	2,9-4,9	2,5-4,5	3,5
	t _{50%}	ISO 6502	min	7,5-11,5	6,5-10,5	6,8
	t _{90%}	ISO 6502	min	14,2-19,2	12,5-17,5	13,0
Compound	Tensile strength at break	ISO 37	MPa	min 23	min 22	min 19,0
	Elongation at break	ISO 37	%	min 400	min 350	min 350
	Modulus 300%	ISO 37	MPa	11,7-16,7	14,4-19,4	13,7
	Rebound resilience	ISO 4662	%	min 40	min 40	min 30
	Hardness	ISO 868	°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: ISO 2322
 Mixing procedure: ISO 2393
 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.

STYRENE-BUTADIENE RUBBER - HIPREN® EM

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

PACKAGING AND STORAGE

HIPREN® EM has a form of bales 30.00 ± 0.50 kg each. Bales are wrapped in PE film and the rubber can be processed together with the packaging film. The bales are laid into wooden boxes (box dimensions are 1000 x 1200 x 1250 mm), covered inside with cardboard and polyethylene sack, which protect bales in the box. One box contains 30 bales, total box weighs app. 900 kg.

The packed material is protected against contamination and atmospheric moisture. The rubber should be stored in dry conditions at temperatures below 30°C and protected against direct sunlight.

The producer has no responsibility for any damage caused with the inappropriate storage.

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 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 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.



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