

PETROHEMİA
HIPREN[®] EM 1500 T

DESCRIPTION:

HIPREN[®] EM 1500 T is produced by cold copolymerisation process, with the use of rosin acids soaps as emulsifiers, and contains 23.5% styrene bounded in polymer. The rubber is stabilised with staining antioxidant added during the production process. **HIPREN[®] EM 1500 T** is dark coloured, without nitrosoamine.

HIPREN[®] EM 1500 T is compatible with natural rubber and other synthetic rubbers. Good compatibility, easy incorporation of various compounding ingredients provide possibility of mixing formulations for different applications requirement.

PROPERTIES:

PROPERTY	TEST METHOD	UNIT	NOMINAL VALUE
Mooney viscosity ML 1 + 4 / 100 ^o C	ISO 289	MJ	51
Bound styrene	ISO 2453	wt. %	23.5
Ash	ISO 247	wt. %	0.40
Soap	ISO 7781	wt. %	0.50
Organic acid	ISO 7781	wt. %	6.6
Volatile matter	ISO 248	wt. %	0.5
Stabilizer	10.4.2.1	wt. %	0.4

TYPICAL VULCANISATION PROPERTIES

Standard test recipe : ISO 2322; Mixing procedure : ISO 2393 ; Carbon black : IRB 8

Curemeter test: Reometar MDR 2000 ; Conditions: Temperature 160^oC, Arc 0.5^o

PROPERTY	TEST METHOD	UNIT	RANGE OF STANDARD VALUES
Min. torque (M _L)	ISO 6502	dNm	2.0 – 3.0
Max. torque (M _H)	ISO 6502	dNm	19.0 – 23.0
Scorch time (t _{s1})	ISO 6502	min	2.9 – 4.9
50% Cure time (t _{50%})	ISO 6502	min	7.5 – 11.5
90% Cure time (t _{90%})	ISO 6502	min	14.2 – 19.2

VULCANIZE TESTING:

Conditions:

Vulcanization temperature 145^oC

Vulcanization time 35 min

Test specimen S1

PROPERTY	TEST METHOD	UNIT	RANGE OF STANDARD VALUES
Tensile strenght at break	ISO 37	MPa	min. 23.0
Elongation at break	ISO 37	%	min. 400
Modulus 300%	ISO 37	MPa	11.7 – 16.7
Rebound resilience	ISO 4662	%	min 40
Hardness	ISO 868	^o ShA	63 - 71



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APPLICATION:

HIPREN[®] EM 1500 T is used for production of wide range products including simple small articles, moulded and pressed products, light pneumatics and heavy conveyer belts, hoses, tires etc.

PACKAGING AND STORAGE:

HIPREN[®] EM 1500 T 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. The time of the storage is one year under the given condition.

PACKAGING FILM

PROPERTY	METHODO	UNIT	STANDARD VALUE
Thickness	ISO 4593	µm	50
Vicat softening point	ASTM D 1525	°C	91.5

REACH:

„HIP-Petrohemija“ a.d., Pancevo, Serbia, with applying the existing standards ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 follows completely the highest standards by which there are regulated human health and safety protection and environmental protection 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 further undisturbed placement and sale of „HIP-Petrohemija“ a.d. products without any limits at EU market.

As the only representative for „HIP-Petrohemija“ a.d. in EU, pursuant to Article 8 of REACH regulation, there has been designated **ReachLaw Ltd., Helsinki, Finland.**

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

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