



PETROHEMIJA

HIPREN[®] EM 1712 T TDAE (HIPREN EM 1723)

DESCRIPTION:

HIPREN[®] EM 1712 T TDAE (HIPREN EM 1723) contains 23.5% styrene bounded in polymer. **It is extended with 37.5 parts (w/w) of low aromatic TDAE oil per 100.0 parts (w/w) of polymer.** The rubber is produced by low temperature emulsion copolymerization process with the use of resin and fatty acids soaps as emulsifiers and is coagulated by acid. The rubber contains a staining stabiliser added during the production process. The product is without nitrosoamine.

PROPERTIES:

PROPERTY	TEST METHOD	UNIT	NOMINAL VALUE
Mooney viscosity ML 1 + 4 / 100°C	ISO 289	MU	49
Bound styrene	ISO 2453	wt. %	23.5
Ash	ISO 247	wt. %	0.40
Soap	ISO 7781	wt. %	0.50
Organic acid	ISO 7781	wt. %	4.5
Volatile matter	ISO 248	wt. %	0.50
Stabilizer	10.4.2.1	wt. %	0.4
ETA extract	ASTM D 5774	wt. %	32.0

TYPICAL VULCANISATION PROPERTIES

Standard test recipe : ISO 2322; Mixing procedure : ISO 2393 ; Carbon black : IRB 7

Curemeter test: Reometar MDR 2000 ; Conditions: Temperature 160°C, Arc 0.5°

PROPERTY	TEST METHOD	UNIT	STANDARD VALUES
Min. torque (M_L)	ISO 6502	dNm	2.4
Max. torque (M_H)	ISO 6502	dNm	16.5
Scorch time (t_{s1})	ISO 6502	min	3.5
50% Cure time ($t_{50\%}$)	ISO 6502	min	6.8
90% Cure time ($t_{90\%}$)	ISO 6502	min	13.0

VULCANIZE TESTING:

Conditions:

Vulcanization temperature 145°C

Vulcanization time 35 min

Test specimen S1

PROPERTY	TEST METHOD	UNIT	RANGE OF STANDARD VALUES
Tensile strength at break	ISO 37	MPa	min. 19.0
Elongation at break	ISO 37	%	min. 350
Modulus 300%	ISO 37	MPa	13.7
Rebound resilience	ISO 4662	%	min 30
Hardness	ISO 868	°ShA	64

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APPLICATION:

Synthetic rubber **HIPREN[®] EM 1712 T TDAE (HIPREN[®] EM 1723)** is a general purpose rubber. It can be processed in all sectors of the tyre and rubber industry. It is mainly aimed to be used for production of tyres and conveyors belts.

HIPREN[®] EM 1712 T TDAE (HIPREN[®] EM 1723) can be used in the same rubber compounds as **HIPREN[®] EM 1712 T**. It is not approved for production of rubber articles coming into contact with food or drinking water.

PACKAGING AND STORAGE:

HIPREN[®] EM 1712 T TDAE (HIPREN[®] EM 1723) has a form of bales 30.00 ± 0.50 kg each. Bales are wrapped in PE foil (the manufacturer's name and type of rubber are printed on the foil).

The bales are laid into:

1. **Wooden boxes-palletes**, covered inside with cardboard and polyethylene sack, which protect bales in the box. After laying bales in the box, boxes are colsed by overlaping and gluing the sack. The packed material is protected against contamination and atmospheric moisture.

One wooden box-pallet contains 30 bales, total weighs in pallet app. 900 kg.

2. **Metal pallets** covered inside with polyethylene sack. After laying bales in the box, boxes are colsed by overlaping and gluing the sack. The packed material is protected against contamination and atmospheric moisture.

One metal pallet contains 40 bales, total weighs in pallet app. 1200 kg.

The rubber should be stored in dry conditions at temperatures below 30°C and protected against direct sunlight. The time of the storage is one year under the given conditions. The producer has no responsibility for any damage caused with the inappropriate storage.

PACKAGING FILM

PROPERTY	METOHOD	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 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2011 follows completely the highest standards by which there are regulated environmental protection and human health and safety protection 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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