

SLOVENSKI STANDARD SIST EN 2430:2001

01-januar-2001

Aerospace series - Ethylene-propylene rubber (EPM/EPDM) - Hardness 70 IRHD

Aerospace series - Ethylene-propylene rubber (EPM/EPDM) - Hardness 70 IRHD

Luft- und Raumfahrt - Ethylen-Propylen-Elastomer (EPM/EPDM) - Härte 70 IRHD

Série aérospatiale - Elastomere éthylene-propylene (EPM/EPDM) - Dureté 70 DIDC

Ta slovenski standard je istoveten z: EN 2430:1995

SIST EN 2430:2001

https://standards.iteh.ai/catalog/standards/sist/a7f60691-d6a0-4dd3-953f-36568daf5683/sist-en-2430-2001

ICS:

49.025.40 Guma in polimerni materiali Rubber and plastics

SIST EN 2430:2001 en

SIST EN 2430:2001

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 2430;2001

https://standards.iteh.ai/catalog/standards/sist/a7f60691-d6a0-4dd3-953f-36568daf5683/sist-en-2430-2001

EUROPEAN STANDARD

EN 2430

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1995

ICS 49.040.10

Descriptors:

o 1995

aircraft industry, rubber, ethylene-propylene rubber, hardness

English version

Aerospace series - Ethylene-propylene rubber (EPM/EPDM) -Hardness 70 IRHD

Série aérospatiale - Elastomère Luft - und Raumfahrt - éthylène-propylène (EPM/EPDM) - Dureté 70 DIDCDARD PRE Ethylen-Propylen-Elastomer (EPM/EPDM) - Härte (Standards.iteh.ai)

SIST EN 2430,2001

https://standards.iteh.ai/catalog/standards/sist/a7f60691-d6a0-4dd3-953f-36568daf5683/sist-en-2430-2001

الم المراسية الأرام

This European Standard was approved by CEN on 1995-03-02. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Page 2

EN 2430:1995

Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 1996, and conflicting national standards shall be withdrawn at the latest by March 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

REPUBLIKATOLOVO NIJA MMSTSTNOZA ŠOMNO, EGMENTERSONT

https://standards.iteh.ai/catalog/standards/sis/261693-362693-36268daf5683/sis/261-2430-2001

TOTAL TOTAL TRANSPORT OF THE TAX TOTAL TOT

Page 3 EN 2430 : 1995

1 Scope

This standard specifies the properties of ethylene-propylene rubber (EPM/EPDM) ¹⁾, hardness 70 IRHD, for aerospace applications.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 1629 Rubber and latices - Nomenclature

ISO 1817 Rubber, vulcanized - Determination of the effect of liquids

EN 3207 Aerospace series - Rubber compounds - Technical specification 2)

3 Application of the material

The suitability of the material for a specific application shall be determined by complementary tests carried out on the finished product as the properties specified in this standard are obtained from standard test specimens.

3.1 Typical use Teh STANDARD PREVIEW

Application requiring a resistance to ozone, weather and phosphate ester based hydraulic fluids.

NOTE: This material shall not be used for the manufacture of dynamic seals in flight hydraulic systems.

SIST EN 2430:2001

https://standards.iteh.ai/catalog/standards/sist/a7f60691-d6a0-4dd3-953f-

3.2 Temperature range

36568daf5683/sist-en-2430-2001

- Continuous service

from - 55 °C to + 125 °C

- Intermittent service :

from - 55 °C to + 160 °C

4 Properties

See tables 1 and 2.

For qualification, all tests shall be performed.

For batch acceptance, the tests identified in tables 1 and 2 shall be performed.

5 Designation

Description block

RUBBER

EN2430

Number of this standard

Technical specification

EN 3207

¹⁾ Symbol as per ISO 1629

²⁾ In preparation at the date of publication of this standard

Page 4 EN 2430 : 1995

Table 1 - Test methods

	<u> </u>	r	Time
Column			
	1	2	3
Line		_	
	Properties	Units	Requirements
1 .	Hardness	IRHD	70 +5 *)
	naiuliess	ואחט	70 -4
2			
3	Density	Mg/m ³	1) *)
<u>4</u> 5	Topollo etropeth	ND.	40
6	Tensile strength	MPa	10 min. *)
7	Elongation at break	%	200 min *)
8	Liongation at bleak	70	200 min. *)
9	Modulus at - % strain	MPa	-
10	77 01411	4	
11	Tear strength	N/mm	20 min.
12			
13	Resistance to low temperatures TR10	°C	- 30 max.
14	Crystallization	Point	-
15	Compression set		
15.1	after 1 en 70 h Atol 100 Acc D PREV	IEV%	40 max. *)
15.2	after - h to - °C		
16	(stanuarus.iten.ai)		
17	Ozone resistance Ozone concentration : (200 ±N 22002())1pphm Elongation of test piece hai/catalog/20dards/sist/a7%0691-d6a Time 36568daf5 (168 sist-en-2430 h2001 Temperature : 30 °C	0-4dd3-953f-	Nil cracking
18	Temperature . 30 C		Į.
19	Corrosion and adhesion on metals in a dry atmosphere Time : - h Temperature : - °C	<u> </u>	-
20	Corrosion and adhesion on metals in a damp		
	atmosphere		
20.1	Time : - h Temperature : - °C Humidity : - %	-	- .
20.2	Time : - h Temperature : - °C Humidity : - %	•	-
21			
22			
23			
24			
25			
26 .			
27			
28			
39			
30 Test for batch a			

^{*)} Test for batch acceptance
1) The value determined for each batch shall not differ from that determined at qualification by more than 0,02 Mg/m³.

Page 5 EN 2430 : 1995

Table 2 - Tests after exposure to test media

Column			· · · · · · · · · · · · · · · · · · ·				
Line		1	2	3	4	5	
1		st media	-	Air	Test fluid 103 see ISO 1817		
2	ė:	nditions of xposure est media	Units	70 h/125 °C	24 h/100 °C		
3	Permitted variation of the properties compared to the initial value	Volume	%	-	+ 20 *) 0		
4		Mass	%	-	-		
5		Tensile strength	%	- 15 max.	- 30 max.		
6		eh Sat break DAF	D%PI	20 max.V	- 20 max.		
7		(Haranesslard		ai ⁺)10 0	0 15		
8	<u> </u>	<u>SIST EN 24</u> tandards.iteh.ai/catalog/standar	ls/sist/a7f60		3f-		
*) Test for batch acceptance 36568daf5683/sist-en-2430-2001							