



Scheda prodotto – Product data sheet

PDS-GC-303703

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Rubber Compound EPDM 70 – C6

Vulcanizzazione: Perossido – Cured: Peroxide

ASTM D2000 M3DA 714 A26 B16 EA14 C32 G11 F19

Mescola certificata secondo la specifica FDA-CFR 21 parti da 170 a 199 Item 177.2600 (a) (b) (c) (d) (e) (f)

Certified compound according to FDA-CFR 21 part 170 to 199 item 177.2600 (a) (b) (c) (d) (e) (f) specification

Date	Revision	Details of changes
01/09/2023	13	Updated values and FDA approval
14/10/2022	12	Updated values and change data sheet format
19/06/2018	11	Change data sheet format
02/02/2017	10	Updated values

Parametri di vulcanizzazione provini	Specimens Vulcanization parameters
Lastre spessore 2 mm: 177°C per 15 minuti	Slab 2 mm thickness: 177°C. for a period of 15 minutes
Bottoni diametro 29 mm spessore 12.5 mm 177°C per 30 minuti	Buttons diameter 29 mm thickness 12.5 mm 177°C. for a period of 30 minutes

Physical Properties

Temperatura di utilizzo:	-55°C a +150°C	Operating temperature range:	-55°C to +150°C
Temperature per brevi periodi	-55°C a + 175°C	Temperature range for short period	-55°C to + 175°C

Proprietà	Property	Test Method	Units	Measured Value
Durezza	Hardness	ASTM D 2240	Shore A	73
Densità	Density	ASTM D 792	g/cm ³	1.225
M100	M100	ASTM D 412 C	MPa	4.9
Carico a rottura	Tensile strength	ASTM D 412 C	MPa	18.5
Allungamento a rottura	Elongation at break	ASTM D 412 C	%	260
Resistenza a lacerazione	Tear strength	ASTM D 624 B	N/mm	42
Brittle point	Brittle point	ASTM D 2137	°C	-56
TR Test TR10	TR Test TR10	ASTM D 1329	°C	-32
Glass transition Tg (DSC)	Glass transition Tg (DSC)	ASTM D 3418	°C	-48
Compression set 22 hrs @ 150°C	Compression set 22 hrs @ 150°C	ASTM D 395 B	%	12
Resistenza all'Ozono 72 hrs – 40°C – 50pphm – 20% Elong.	Ozone Resistance 72 hrs – 40°C – 50pphm – 20% Elong.	ASTM D 1149	-	No crack

Change in properties after ageing

Test conditions ASTM D 573 (Aria – Air) / ASTM D 471 (Fluidi – Fluids)

Ambiente Medium	Tempo Time	°C	Durezza Hardness	Δ Tensile Strength	Δ Elong. At break	Δ Volume	Δ Weight
Aria - Air	70	150	+2	+1.1	-7	-	-
Dist. Water	70	100	-0.5	-	-	+0.8	+0.7

I dati riportati sono suscettibili di variazioni che GAPI riterrà di apportare per migliorare le caratteristiche del prodotto.

Per applicazioni specifiche si consiglia di contattare il nostro customer service. Documentazione non soggetta ad aggiornamento.

Since development and improvement of compounds is a continuing process, GAPI reserves the right to modify their composition and characteristics.

For specific application please contact our customer service. Uncontrolled copy.

Rubber Compound EPDM 70 – C6

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**Laboratorio
Italiano
Gomma**

Date, June 27th, 2023

TR N° 447-(eng)/2023

Ref. Our offer n.157 dated 13.06.2023

To

GAPI S.P.A.

VIA MOLINARETTI, 2

24060 CASTELLI CALEPIO (BG)

Received:	12.06.2023	Test start:	13.06.2023	Test end:	23.06.2023	Page 1 of 2
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T E S T R E P O R T

Subject:	SUITABILITY TO BE USED IN CONTACT WITH FOODS, ACCORDING TO FDA, OF A RUBBER COMPOUND, MARKED "EPDM 70-C6" SUPPLIED AS VULCANIZED SHEETS 2 mm thick
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Supply:	Received sample vulcanized sheet compound code EPDM 70-C6
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Rubber compound (Sheets 2 mm thick)	EPDM 70-C6				
	Results		Uncertainty	Test methods	Requirements
AQUEOUS FOODS					
<u>Distilled water at reflux temperature</u>				FDA-Title 21 Parts 170 to 199 Item 177.2600 (e)	
Total extractable matter during the first 7 hours of extraction	mg/in ²	0,41	± 0,12		max 20
Total extractable matter during the succeeding 2 hours of extraction	mg/in ²	0,22	± 0,05		max 1
FATTY FOODS					
<u>n-Hexane at reflux temperature</u>				FDA-Title 21 Parts 170 to 199 Item 177.2600 (f)	
Total extractable matter during the first 7 hours of extraction	mg/in ²	31,04	± 0,71		max 175
Total extractable matter during the succeeding 2 hours of extraction	mg/in ²	1,80	± 0,95		max 4

The uncertainty of the measurements declared in this Test Report was determined according to the ISO/IEC 98-3:2008 standard and is expressed as the expanded uncertainty U obtained by multiplying the standard uncertainty by the coverage factor k(95%)=2 corresponding to a confidence level of about 95%

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Laboratorio
Italiano
Gomma



Date,

June 27th, 2023

TR N°

447-(eng)/2023

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T E S T R E P O R T

Note 1: All accredited instruments are listed in the following table

Table 1:

Instruments	Model	Serial N.	Certificate N.	Issued by	Expiration
Electronic Balance	AB265-S/FACT	1129171967	LAT094056B/23	Gibertini Elettronica Srl	09/02/2024

REMARK:

On the basis of the test results and on the basis of the recipe provided by the Customer, we certify that the rubber compound marked **"EPDM 70-C6" is in compliance** with the Requirements of the FDA – CFR 21 – Parts 170 to 199 – Item 177.2600 Paragraph (a), (b), (c), (d) of the use in contact with dry foods, (e) of the contact with aqueous foods and (f) of the contact with fatty foods.

The rubber compound is suitable for contact with milk and edible oils, with the exclusion of infant formula and breast milk.

NOTE: Test Report reports the data of the tests carried out on the rubber compound supplied in the form of 2 mm thick vulcanized plates; it is not applicable to finished articles obtained by molding the same compound if the molding conditions are not representative of the production process

The sampling was carried out by the Customer.

It is declared that the results obtained relate exclusively to the sample examined.

This Test Report may not be partially reproduced unless approved by the Laboratory.

This Test Report is issued on the basis of ACCREDITATION No. 0048 granted by ACCREDIA.

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