



Scheda prodotto – Product data sheet

PDS-GC-301725

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Rubber Compound NBR 70 – K6

ASTM D2000 M3 CH714 B14 EO16 EO36

ASTM D2000 M2 BG714 B14 B34 EA14 EF11 EF21 EO14 EO34 - F15*

EN 549 Temp. Classes B2, Hardness Classes H3 with resistance to condensate/liquid phase of combustible gases

Rev.	Date	Updates
27	19/04/23	Update DIN EN 549 Certification and update value
26	25/02/22	Update value
25	19/07/21	Update value
24	08/07/21	Update DIN EN 549 Certification
23	16/12/20	Change data sheet format and update value

Parametri di vulcanizzazione provini	Specimens Vulcanization parameters
Lastre spessore 2 mm: 177°C per 7 minuti	Slab 2 mm thickness: 177°C. for a period of 7 minutes
Bottoni diametro 29 mm spessore 12.5 mm 177°C per 15 minuti	Buttons diameter 29 mm thickness 12.50 mm 177°C. for a period of 15 minutes
Bottoni diametro 13 mm spessore 6 mm 177°C per 15 minuti	Buttons diameter 13 mm thickness 6 mm 177°C. for a period of 15 minutes

Physical Properties

Temperatura di utilizzo:	-30°C a +100°C	Operating temperature range:	-30°C to +100°C
Temperature per brevi periodi	-30°C a + 120°C	Temperature range for short period	-30°C to + 120°C

Proprietà	Property	Test Method	Units	Measured Value
Durezza	Hardness	ASTM D 2240	Shore A	70
Densità	Density	ASTM D 792	g/cm ³	1.260
M100	M100	ASTM D 412 C	MPa	3.8
Carico a rottura	Tensile strength	ASTM D 412 C	MPa	14.5
Allungamento a rottura	Elongation at break	ASTM D 412 C	%	324
Resistenza a Lacerazione	Tear strength	ASTM D 624 B	N/mm	50
Brittle point	Brittle point	ASTM D 2137	°C	-29
TR Test TR10/30/50/70	TR Test TR10/30/50/70	ASTM D 1329	°C	-28 -23 -20 -12
Glass transition Tg (DSC)	Glass transition Tg (DSC)	ASTM D 3418	°C	-29.5
Compression set 22 hrs @ 100°C	Compression set 22 hrs @ 100°C	ASTM D 395 B	%	12.5
Compression set PILED 22 hrs @ 100°C	Compression set PILED 22 hrs @ 100°C	ASTM D 395 B	%	19
Compression set 70 hrs @ 100°C	Compression set 70 hrs @ 100°C	ASTM D 395 B	%	16
Compression set 70 hrs @ 125°C	Compression set 70 hrs @ 125°C	ASTM D 395 B	%	28

F15* - Brittle Point ASTM D 2137: Non previsto dal grado BG (inserito per dare evidenza della resistenza alla bassa temperatura)

F15* - Brittle Point ASTM D 2137: Not provided by the BG grade (included to provide evidence of low temperature resistance)

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.

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EN 549 Temp. Classes B2, Hardness Classes H3 with resistance to condensate/liquid phase of combustible gases

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
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ASTM D2000 M3 CH714 B14 EO16 EO36

Aria - Air	70	125	+9	+15	-33	-	-
IRM 901	70	150	+7	+15	-25	-7.5	-5.5
IRM 903	70	150	-4	-34	-25	+6	+3.5
FUEL C	70	23	-18	-50	-52	+40	+23

ASTM D2000 M2 BG714 B14 B34 EA14 EF11 EF21 EO14 EO34

Aria - Air	70	100	+4	+6	-20	-	-
IRM 901	70	100	+7	+8	-19	-8.5	-5.5
IRM 902	70	100	+2	+7	-5	-1.5	-0.7
IRM 903	70	100	-1.5	+6	-15	+4	+2.5
FUEL A	70	23	-1	-4	-1	+1.5	+0.8
FUEL B	70	23	-12	-31	-29	+21.9	+12.6
Dist. Water	70	100	0	-	-	+2.1	+1.7

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EN 549 Temp. Classes B2, Hardness Classes H3 with resistance to condensate/liquid phase of combustible gases

Physical Properties

EN 549 Classe Temp. B2, Classe Durezza H3 -- EN 549 Temp. Classes B2, Hardness Classes H3

Proprietà	Property	Test Method	Units	Measured Value
Durezza	Hardness	ISO 48	IRHD	71
Carico a rottura	Tensile strength	ISO 37 Type 2	MPa	14.4
Allungamento a rottura	Elongation at break	ISO 37 Type 2	%	340
Compression set 168 hrs @ 100°C	Compression set 168 hrs @ 100°C	ISO 815	%	23
Compression set 72 hrs @ -20°C	Compression set 72 hrs @ -20°C	ISO 815	%	39

Change in properties after ageing

Test conditions ISO 188 (Aria – Air) / ISO 1817 (Fluidi – Fluids)

Ambiente Medium	Tempo Time	°C	Durezza Hardness	Δ Tensile Strength	Δ Elong. At break	Δ Volume	Δ Weight
Aria - Air	168	100	+5	+10	-21	-	-
IRM 902	168	80	+2	-	-	-	-1.1
N-Pentane	72	23	-	-	-	-	+3.7
N-Pentane Dry	168	40	-	-	-	-	-2
Fuel B	72	23	-	-	-	-	+12.6
Fuel B Dry	96	70	-	-	-	-	-7.8

Restrizioni/Restrictions

REACH Allegato XVII Restrizione 52

Gli articoli prodotti con questo materiale non possono essere utilizzati in giocattoli e articoli di puericultura che possono essere messi in bocca dai bambini.

REACH Annex XVII Restriction 52

Items produced with this material cannot be used in toys and childcare articles which can be placed in the mouth by children.

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DIN-DVGW type examination certificate

DIN-DVGW-Baumusterprüfzertifikat

NG-5112AR0863
Registration Number
Registrierungsnummer

Field of Application <i>Anwendungsbereich</i>	products of gas supply <i>Produkte der Gasversorgung</i>
Owner of Certificate <i>Zertifikatinhaber</i>	GAPI S.p.A. Via Molinaretti, 2, I-24060 Castelli Calepio (BG)
Distributor <i>Vertreiber</i>	GAPI S.p.A. Via Molinaretti, 2, I-24060 Castelli Calepio (BG)
Product Category <i>Produktart</i>	Greasing and sealing materials: Elastomer material for seals in gas appliances (5112)
Product description <i>Produktbezeichnung</i>	Sealing material made of elastomers with limited swelling in n-pentane for gas appliances and gas equipments
Model <i>Modell</i>	NITRILE 70-K6
Test reports <i>Prüfberichte</i>	Type testing: 22-00602-AB01 from 30.01.2023 (EBI)
Test basis <i>Prüfgrundlagen</i>	DIN EN 549 (01.09.2019)

Date of Expiry / File No. 08.05.2028 / 23-0103-GNA
Ablaufdatum / Aktenzeichen

22.03.2023 Kir A-1/2

Date: Issued by: Sheet: Head of Certification Body
Datum: Bearbeiter: Blatt: Leiter der Zertifizierungsstelle



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NG-5112AR0863

Type	Technical Data	Remarks
Typ	Technische Daten	Bemerkungen
NITRILE 70-K6	Hardness class: H3 Temperature range: -20...+80 °C Temperature class: B2	

Hints of Utilization / Remarks

Verwendungshinweise / Bemerkungen

The material is resistant to condensate of the allowable combustible gases acc. to DIN EN 549, Section 7.7.

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