

Rubber Compound NBR 80 – K8

ASTM D2000 M6 BG814 A14 B14 EO14 EO34 F15

Conforme alla EN 549 B2-H3 – According to EN 549 B2-H3

Rev.	Date	Updates
09	16/03/20	Updated ECHA's restriction
08	10/09/19	Change data sheet format
07	20/06/18	Updated values
06	12/02/15	First edition

Parametri di vulcanizzazione provini

Lastre spessore 2 mm: 177°C per 7 minuti
Bottoni diametro 29 mm spessore 12.5 mm
177°C per 15 minuti

Specimens Vulcanization parameters

Slab 2 mm thickness: 177°C. for a period of 7 minutes
Buttons diameter 29 mm thickness 12.50 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

Proprietà	Property	Test Method	Units	Measured Value
Durezza	Hardness	ASTM D 2240	Shore A	80
Densità	Density	ASTM D 792	g/cm ³	1.260
M100	M100	ASTM D 412 C	MPa	8
Carico a rottura	Tensile strength	ASTM D 412 C	MPa	16
Allungamento a rottura	Elongation at break	ASTM D 412 C	%	250
Resistenza a Lacerazione	Tear strength	ASTM D 624 B	N/mm	50
Brittle point	Brittle point	ASTM D 2137	°C	-27
TR Test TR10	TR Test TR10	ASTM D 1329	°C	-26
Glass transition Tg (DSC)	Glass transition Tg (DSC)	ASTM D 3418	°C	-26
Compression set 22 hrs @ 100°C	Compression set 22 hrs @ 100°C	ASTM D 395 B	%	7
Ozone Resistance 24 hrs – 30°C – 50pphm – 20% Elong.	Resistenza all'Ozono 24 hrs – 30°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	100	+3	+5	-17	-	-
IRM 901	70	100	+3	-11	-13	-7	-5
IRM 903	70	100	-4	-5	-16	+8	+6
ATSM OIL 5	70	100	+3	+10	-12	-7	-6.2
Fuel A	70	23	-2	-13	-13	+2.9	+1.3
Fuel B	70	23	-12	-26	-10	+26	+15
H ₂ O - Distilled	70	100	-1	-	-	+3	+1.9

I dati riportati sono suscettibili di variazioni che GAPI riterrà di apportare per migliorare le caratteristiche del materiale. Le informazioni fornite sono indicative.

Since development and improvement of materials is a continuing process, GAPI reserves the right to modify their characteristics. The information and suggestions are provided for guidance purpose only.



Scheda prodotto – Product data sheet

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Physical Properties EN 549 B2-H3

Proprietà	Property	Test Method	Units	Measured Value
Durezza	Hardness	ISO 48	Shore A	79
Carico a rottura	Tensile strength	ISO 37 Type 2	MPa	15.2
Allungamento a rottura	Elongation at break	ISO 37 Type 2	%	290
Compression set 168 hrs @ 100°C	Compression set 168 hrs @ 100°C	ISO 815	%	15
Compression set 70 hrs @ -20°C	Compression set 70 hrs @ -20°C	ISO 815	%	43
Ozone Resistance 24 hrs – 40°C – 50pphm – 20% Elong.	Resistenza all'Ozono 24 hrs – 40°C – 50pphm – 20% Elong.	ASTM D 1149	-	No crack

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	+7	+11	-30	-	-
IRM 902	168	80	+2	-	-	-	-1.1
n-Pentano n-Pentane	72	23	-3	-	-	-	+3.3
Pentano+Aria Pentane+Air	168	40	-1	-	-	-	-3.2

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