Rubber Compound NBR 70 – X6

ASTM D2000 M2 BG 712 A14 B14 EA14 EF11 EF21 EO14 EO34 F18
Conforme alla EN 549 B2-H3 – *According to EN 549 B2-H3*

Rev.	Date	Updates
11	*18/11/22*	*Update values*
10	*18/02/20*	*Change data sheet format*
09	*22/06/18*	*Change data sheet format*

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: –55°C a +100°C	***Operating temperature range: –55°C to +100°C***

Proprietà	*Property*	Test Method	Units	Measured Value
Durezza	*Hardness*	ASTM D 2240	Shore A	72
Densità	*Density*	ASTM D 792	g/cm3	1.275
M100	*M100*	ASTM D 412 C	MPa	4.7
Carico a rottura	*Tensile strength*	ASTM D 412 C	MPa	11.8
Allungamento a rottura	*Elongation at break*	ASTM D 412 C	%	270
Resistenza a Lacerazione	*Tear strength*	ASTM D 624 B	N/mm	40
Brittle point	*Brittle point*	ASTM D 2137	°C	-52
TR Test TR10	*TR Test TR10*	ASTM D 1329	°C	-47
Glass transition Tg (DSC)	*Glass transition Tg (DSC)*	ASTM D 3418	°C	-50
Compression set 22 hrs @ 100°C	*Compression set* *22 hrs @ 100°C*	ASTM D 395 B	%	6
Ozone Resistance 72 hrs – 40°C – 50pphm – 20% Elong.	*Resistenza all'Ozono* *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 *Weigth*
Aria – air	70	100	+4	-1	-21	-	-
Water	70	100	-0.7	+9	-6	+2.7	+2
IRM 901	70	100	+7.6	+11	-30	-10.5	-8.5
IRM 903	70	100	-4	-3.8	-12	+17	+15
Fuel A	70	23	-1.6	-19	-16.8	+2	+1
Fuel B	70	23	-15	-37	-45	+25	+14

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.

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Physical Properties EN 549 B2-H3

Proprietà	*Property*	Test Method	Units	Measured Value
Durezza	*Hardness*	ISO 48	Shore A	71
Carico a rottura	*Tensile strength*	ISO 37 Type 2	MPa	11.2
Allungamento a rottura	*Elongation at break*	ISO 37 Type 2	%	235
Compression set 168 hrs @ 100°C	*Compression set* *168 hrs @ 100°C*	ISO 815	%	14
Compression set 70 hrs @ -20°C	*Compression set* *70 hrs @ -20°C*	ISO 815	%	30
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 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 *Weigth*
Aria – *Air*	168	100	+8	+15	-23	-	-
IRM 902	168	80	+2	-	-	+1.2	+1
n-Pentano *n-Pentane*	72	23	-8	-	-	-	+1
Pentano+Aria *Pentane+Air*	168	40	+6	-	-	-	-6.5