



## Scheda prodotto – Product data sheet

PDS-GC-302154

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### Rubber Compound FKM 75 – G6 Brown

ASTM D2000 M2 HK 810 A1-10 B18 EF31 EO78 Z1

Z1 = Durezza Shore A 75 ± 5 – Hardness Shore A 75 ± 5

| Date     | Revision | Details of changes                                                 |
|----------|----------|--------------------------------------------------------------------|
| 25/10/24 | 15       | Added TSCA regulation, updated values and change data sheet format |
| 13/05/22 | 14       | Update values                                                      |
| 11/04/22 | 13       | Update values                                                      |

| 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<br>177°C per 15 minuti | Buttons diameter 29 mm thickness 12.50 mm<br>177°C. for a period of 15 minutes |
| Post vulcanizzazione: 24 ore a 230°C                           | Post-cure cycle : 24 hours at 230°C                                            |

### Physical Properties

|                               |                |                                    |                 |
|-------------------------------|----------------|------------------------------------|-----------------|
| Temperatura di utilizzo:      | -15°C a +200°C | Operating temperature range:       | -15°C to +200°C |
| Temperature per brevi periodi | -15°C a +250°C | Temperature range for short period | -15°C to +250°C |

| Proprietà                                               | Property                                                    | Test Method  | Units             | Measured Value |
|---------------------------------------------------------|-------------------------------------------------------------|--------------|-------------------|----------------|
| Durezza                                                 | Hardness                                                    | ASTM D 2240  | Shore A           | 78 (Z1)        |
| Densità                                                 | Density                                                     | ASTM D 792   | g/cm <sup>3</sup> | 2.110          |
| M100                                                    | M100                                                        | ASTM D 412 C | MPa               | 6.8            |
| Carico a rottura                                        | Tensile strength                                            | ASTM D 412 C | MPa               | 10.4           |
| Allungamento a rottura                                  | Elongation at break                                         | ASTM D 412 C | %                 | 175            |
| Resistenza a Lacerazione                                | Tear strength                                               | ASTM D 624 B | N/mm              | 30             |
| Brittle point                                           | Brittle point                                               | ASTM D 2137  | °C                | -11            |
| Glass transition Tg (DSC)                               | Glass transition Tg (DSC)                                   | ASTM D 3418  | °C                | -16            |
| TR Test TR10                                            | TR Test TR10                                                | ASTM D 1329  | °C                | -15            |
| Compression set<br>22 hrs @ 200°C                       | Compression set<br>22 hrs @ 200°C                           | ASTM D 395 B | %                 | 16.5           |
| Compression set<br>70 hrs @ 200°C                       | Compression set<br>70 hrs @ 200°C                           | ASTM D 395 B | %                 | 25             |
| Ozone Resistance<br>72 hrs – 40°C – 50pphm – 20% Elong. | Resistenza all'Ozono<br>72 hrs – 40°C – 50pphm – 20% Elong. | ASTM D 1149  | -                 | No crack       |

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.



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### Change in properties after ageing

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

| Ambiente<br>Medium | Tempo<br>Time | °C  | Durezza<br>Hardness | Δ Tensile<br>Strength | Δ Elong. At<br>break | Δ Volume | Δ Weight |
|--------------------|---------------|-----|---------------------|-----------------------|----------------------|----------|----------|
| Aria - Air         | 70            | 250 | 3.5                 | -6                    | -18                  | -        | -        |
| FUEL C             | 70            | 23  | -3.5                | -7.3                  | -10.3                | +3.2     | +1.5     |
| FLUID 101          | 70            | 200 | -6.9                | -23.8                 | +16.1                | +9.6     | +3.9     |
| IRM 901 Oil        | 70            | 150 | +1                  | +7.6                  | +8.3                 | +0.2     | +0.1     |
| IRM 903 Oil        | 70            | 150 | -1                  | +2.8                  | +7.0                 | +1.7     | +0.8     |
| Acqua - Water      | 70            | 100 | -0.5                | -                     | -                    | +1.3     | +0.6     |

### Restrizioni/Restrictions

TSCA sezione 8(a)(7)

Gli articoli prodotti con questo materiale contengono 1-Propilene, 1,1,2,3,3,3-esafuoro-, polimero con 1,1-difluoroetilene cas:9011-17-0 in concentrazione in peso <63%. Politetrafluoroetilene PTFE cas:9002-84-0 in concentrazione in peso <3%

TSCA section 8(a)(7)

Articles manufactured with this material contain 1-Propylene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethylene cas:9011-17-0 in concentration by weight <63%. Polytetrafluoroethylene PTFE cas:9002-84-0 in concentration by weight <3%

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