

RUBBER FORMULA FKA6301



Technical Data Sheet

Highlights

Light grey FDA –milk and edible oils nitrile rubber formulation
 Low extractables
 Very low odor
 Nitrosamines and nitrosables free
 Suitable for food contact application (European and Italian regulation)
 Suitable for pharma application (E. P.)

Physical Properties

| | | |
|------------------------------|------------------------|------------|
| Density | 1,45 Mg/m ³ | ISO 2781 |
| Hardness | 65 Shore A 2" | ISO 868 |
| Hardness | 63 Shore A 10" | ISO 868 |
| Hardness | 72 Shore M | ASTM D2240 |
| Elastic modulus 100% | 2.9 MPa | ISO 37 |
| Rupture strength | 11.7 MPa | ISO 37 |
| Elongation at rupture | 680 % | ISO 37 |
| Compression set 25%/22h/70°C | 21 % | ISO 815 |
| Tension set 50%/100h/50°C | n.d % | |

Chemical Properties

| TEST MEDIUM | THICKNESS SWELL %/23°C | | CHANGE OF SHORE M | |
|--------------------------|------------------------|---------|-------------------|---------|
| | 3 days | 8 weeks | 3 days | 8 weeks |
| Hexane | 3 | 5 | -6 | -6 |
| Toluene | 46 | 46 | -25 | -25 |
| Water | 0 | 3 | -1 | -2 |
| Water/Ethanol 1:1 | 0 | 3 | -6 | -7 |
| Ethanol | 3 | 5 | -9 | -9 |
| Isopropanol | 5 | 4 | -7 | -6 |
| Dimethyl ether (DME) | 26 | 29 | N/A | N/A |
| Ethyl acetate | 43 | 43 | -23 | -24 |
| Acetone | 49 | 49 | -24 | -25 |
| Methylene chloride | 83 | 85 | -47 | -55 |
| Perchloro ethylene | 17 | 17 | -20 | -20 |
| Petroleum Ether | 2 | 4 | -6 | -6 |
| R-134 A | 4 | 4 | N/A | N/A |
| Propane / Butane (15/85) | 4 | 4 | N/A | N/A |

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Weight loss & Color

| TEST MEDIUM | WEIGHT LOSS % 24h./23°C | COLOR (Gardner) |
|--------------------|-------------------------|-----------------|
| Hexane | 0.5 | <1 |
| Ethanol | 0.7 | <1 |
| Methylene chloride | 2.4 | 1 |

Regulatory Compliance

European pharmacopoeia 5.4, Chapter 3.2.9

European draft "Rubber products intended to come in contact with foodstuff" version 1 – 10.06.04 (Food Simulators A/B/C/D category II)

Italy food contact D.M. 21/03/73 : Food Simulators A/C/D

FDA Title 21, paragraph 177.2600 – milk and edible oils

Phthalates free

Nitrosamines and nitrosables free

Heavy metals (Directive 94/62 CEE and CONEG)

PAH free

Substance halogenated free

Latex free

BSE (Emea/410/01 rev.2)

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