

## RUBBER FORMULA B175



### Technical Data Sheet

#### Highlights

General purpose black nitrile rubber formulation  
Swell in alcohol

#### Physical Properties

|                              |                        |            |
|------------------------------|------------------------|------------|
| Density                      | 1,33 Mg/m <sup>3</sup> | ISO 2781   |
| Hardness                     | 62 Shore A 2"          | ISO 868    |
| Hardness                     | 61 Shore A 10"         | ISO 868    |
| Hardness                     | 74 Shore M             | ASTM D2240 |
| Elastic modulus 100%         | 4.7 MPa                | ISO 37     |
| Rupture strength             | 12.9 MPa               | ISO 37     |
| Elongation at rupture        | 280 %                  | ISO 37     |
| Compression set 25%/22h/70°C | 10 %                   | ISO 815    |
| Tension set 50%/100h/50°C    | 3 %                    |            |

#### Chemical Properties

| TEST MEDIUM              | THICKNESS SWELL %/23°C |         | CHANGE OF SHORE M |         |
|--------------------------|------------------------|---------|-------------------|---------|
|                          | 3 days                 | 8 weeks | 3 days            | 8 weeks |
| Hexane                   | 4                      | 3       | -6                | -4      |
| Toluene                  | 31                     | 30      | -16               | -16     |
| Water                    | 1                      | 3       | -1                | -2      |
| Water/Ethanol 1:1        | 2                      | 4       | -5                | -5      |
| Ethanol                  | 4                      | 1       | -7                | -4      |
| Isopropanol              | 4                      | 1       | -7                | -4      |
| Dimethyl ether (DME)     | 14                     | 14      | -15               | -15     |
| Ethyl acetate            | 27                     | 28      | -15               | -15     |
| Acetone                  | 32                     | 31      | -17               | -17     |
| Methylene chloride       | 53                     | 52      | -17               | -17     |
| Perchloro ethylene       | 12                     | 10      | -13               | -14     |
| Petroleum Ether          | 2                      | 3       |                   |         |
| R-134 A                  | 4                      | 4       |                   |         |
| Propane / Butane (15/85) | 4                      | 3       |                   |         |

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#### Weight loss & Color

| TEST MEDIUM        | WEIGHT LOSS % 24h./23°C | COLOR (Gardner) |
|--------------------|-------------------------|-----------------|
| Hexane             | 1.5                     | <1              |
| Ethanol            | 4.2                     | <1              |
| Methylene chloride | 13.9                    | 2               |

#### Regulatory Compliance

Phthalates free  
Heavy metals ( Directive 94/62 CEE and CONEG)  
Substance halogenated free  
Latex free  
BSE ( Emea/410/01 rev.2)

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