

Technical data sheet in accordance with MIL -DTL-25988C Class

Material

80 FVMQ F80

blue

FVMQ

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1

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2/15/2018

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Physical properties

| | nominal range | typical values | |
|-----------------------------------------------------------------|---------------|----------------|-------------------|
| Density ASTM D792 | 1.55 ±0.03 | 1.55 | g/cm ³ |
| Hardness ASTM D2240, Shore A | 80 ±5 | 77 | Shore |
| Tensile strength ASTM D1414 | > 5 | 6.1 | MPa |
| Tensile strength ASTM D1414 | > 750 | 884 | Psi |
| Elongation at break ASTM D1414 | > 70 | 218 | % |
| Compression set ASTM D395, Slab B, 70 h, 24 °C, 25 % | < 20 | 8 | % |
| Compression set ASTM D395, Slab B, 22 h, 175 °C, 25 % | < 45 | 14 | % |
| Low temperature test ASTM D1329, TR10 | < -57 | -64 | °C |
| Low temperature test ASTM D1329, TR10 | < -70 | -83 | °F |

Declarations of conformity
No data found!

Change after aging in Air: 70h/200°C

| | | nominal range | | Typ. values | |
|----------------------------------|-------|---------------|------------|-------------|------------|
| | | Nominal | Base value | After aging | difference |
| Hardness (ASTM D2240, Shore A) | Shore | --- | 77 | 77 | 0 |
| Tensile strength (ASTM D1414) | % | --- | | | |
| Elongation at break (ASTM D1414) | % | --- | 218 | 194 | -11 % |
| weight change | % | --- | | -0.5 | |

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Change after aging in AMS 2629 Type 1: 22h/23°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D1414)
Elongation at break (ASTM D1414)
volume change (ASTM D471)

Shore
%
%
%

| nominal range | | Typ. values | | |
|---------------|------------|-------------|------------|--|
| Nominal | Base value | After aging | difference | |
| --- | 77 | 71 | -6 | |
| --- | 218 | 190 | -13 % | |
| --- | | 16.8 | | |

Change after aging in AMS 3021: 70h/150°C

Hardness (ASTM D2240, Shore A)
Tensile strength (ASTM D1414)
Elongation at break (ASTM D1414)
volume change (ASTM D471)
Compression set (ASTM D395, Slab B, 70 h, 150 °C, 25 %, CS > 0.110 inch)

Shore
%
%
%
%

| nominal range | | Typ. values | | |
|---------------|------------|-------------|------------|--|
| Nominal | Base value | After aging | difference | |
| --- | 77 | 66 | -11 | |
| --- | 218 | 223 | 2 % | |
| --- | | 9.6 | | |
| --- | | | | |

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No ASTM D2000 properties available

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories process and the component geometry.

The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. All questions regarding the guarantee of this product are in line with our terms and conditions, inasmuch as statutory provisons do not plan for something else.

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