

Material

75 EPDM E755FMD

Version
01

Released on
23.05.2024

General Data

Colour: black
 Type of cross-linking: Sulfur/Soap

Declaration of Compliance for - Food & Beverage is available upon request for selected articles. Please contact your known sales contact or send an email to info@fst.com.

Physical Properties

	Nominal Range	Typical Value	
Density ASTM D297, 23 °C		1.36	g/cm ³
Hardness ASTM D2240, Shore A, 23 °C	75 ±5	77	Shore
Modulus 100 %, ASTM D412, 23 °C		4	MPa
Modulus 200 %, ASTM D412, 23 °C		6	MPa
Modulus 300 %, ASTM D412, 23 °C		8	MPa
Tensile strength ASTM D412	>8	13	MPa
Elongation at break ASTM D412	>200	468	%
Compression set ASTM D395, Procedure B, 22 h, 70 °C		16	%
Compression set ASTM D395, 22 h, 125 °C		76	%

Temperature Range

static: -40 to 100 °C

This data sheet supersedes all previous versions. The content is subject to change without prior notice. 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 manufacturing 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 provisions do not plan for something else.

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Tested after ASTM D 2000: M 2 AA 7 8 A13 B13 Z1 Z2 Z3 Z4

ASTM Property		Nominal Range	Typical Value
Tensile strength	MPa	min. 8	12.62
Elongation at break	%	min. 200	468
A13 Air 70.00h/70.00°C			
Tensile strength	MPa	±30	9
Hardness	Shore	±15	2
Elongation at break	%	-50	2
B13 22.00h/70.00°C			
Compression set	%		16
Z1 ASTM D2240, Shore A			
Elongation at break	%		-23
Hardness	Shore		5
Volume change	%		-1
Tensile strength	%		-4
Z1 ASTM D417,			
Elongation at break	%		-23
Hardness	Shore		5
Volume change	%		-1
Tensile strength	%		-4
Z1 ASTM D471,			
Elongation at break	%		-23
Hardness	Shore		5
Volume change	%		-1
Tensile strength	%		-4

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Z2 *ASTM D2240, Shore A*

Elongation at break	%	-41
Tensile strength	%	1
Hardness	Shore	5
Volume change	%	-1

Z2 *ASTM D417,*

Elongation at break	%	-41
Tensile strength	%	1
Hardness	Shore	5
Volume change	%	-1

Z2 *ASTM D471,*

Elongation at break	%	-41
Tensile strength	%	1
Hardness	Shore	5
Volume change	%	-1

Z3 *ASTM D2240, Shore A*

Hardness	Shore	-3
Elongation at break	%	-5
Tensile strength	%	12
Volume change	%	4

Z3 *ASTM D417,*

Hardness	Shore	-3
Elongation at break	%	-5
Tensile strength	%	12
Volume change	%	4

Z3 *ASTM D471,*

Hardness	Shore	-3
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Elongation at break	%	-5	
Tensile strength	%	12	
Volume change	%	4	
Z4 ASTM D395, 22, 125 °C			
Compression set	%	76	

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