TECHNICAL SPECIFICATION

Wire mesh over Elastomer

Description

Metal elastomer gaskets obtained with the cladding of layers in concentric metallic mesh around an elastomer material that accomplishes the function of elastic recovery after compression. Various sections are available and dimensions upon client request. This type is not suitable for water tight sealing; for this specific application refer to the Twinshield type of gasket. The possibility of combining elastomer and metallic mesh and overlapping layers is very broad and left to the needs of the client.

Applications

Gasket for the shielding of electric and magnetic fields where there is no requirement for water tight sealing as well. Elastic recovery is obtained with expanded materials of various types such as Silicone, Neoprene and EPDM. These are recommended for panel systems, electrical control panels, doors, etc., which must be disassembled or opened with a certain frequency, therefore the need for the elastic recovery of the gasket.

Provision

In spools or in pieces pre-cut to size, in section and dimension upon client request.

Process specification

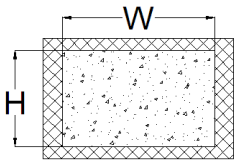
Manufacturing process according to “IO_PRD1_05 Knitted mesh macchine circolari Ed. 4”.

PART NUMBER FOMULATION

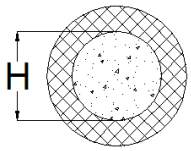
Example: B.R.300.200.EPDM341.1.MO.AD3M6.200 L= 1000 MM

1. Section Type

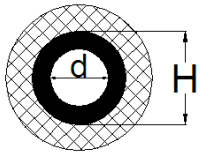
NOTE: Quotes in millimeters. Diameter of the the elastomer if present.



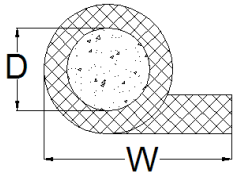
B.R.Wx10.Hx10



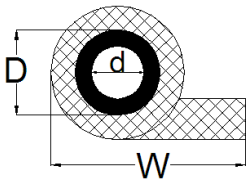
B.O.Hx10



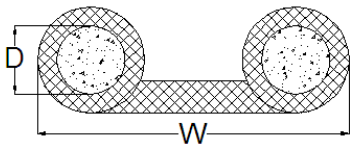
B.O.T.Hx10.dx10



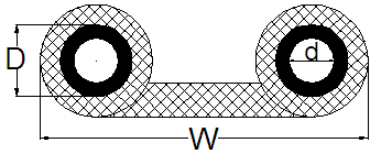
B.O.P.Dx10.Wx10.



B.O.T.P.Dx10.dx10.Wx10.



B.O.S.Wx10.Dx10



B.O.T.S.Wx10.Dx10.dX10

Tolerances of the product are defined according to “IO_PRD1_02 Parameters and Tolerances - Ed. 3”.

Ex: **B.R.300.200**.EPDM341.1.MO.AD3M6.200 L= 1000 MM

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2. Elastomer type

Material	EPDM Sponge EDPM-cr	Neoprene Sponge cr201	Neoprene Sponge cr205	Socaprene	Poyurethane sponge type: EUROBATEX	Polyurethane sponge: D40	Polyurethane sponge: D60 UL94 HBF	Polyurethane sponge: D90	Silicone sponge	Transparent Silicone sponge	EPDM type: SP-50-EPM/TN	EPDM type: SP-100-EPM/TN	EPDM type: SP-MICRO-EPM/TN
Code	EPDM341	N201	N205	CIG3	EBX	PU40	PU60	PU90	SE	S	SP50	SP100	SPMICRO
Color	Black	Black	Black	Gray	Black	White	Dark gray	Dark gray	White	Transparent	Black	Black	Black
Density	110-150 kg/m3	130-170 kg/m3	210-300 kg/m3	170-220 kg/m3	60 kg/m3	40 kg/m3	60-65 kg/m3	70-95 kg/m3	0,50-0,60 g/cm3	1,16 g/cm3	0,430 +/- 0,050 g/cm3	0,400 +/- 0,050 g/cm3	0,600 +/- 0,080 g/cm3
Hardness	20-40 SH 00	38-55 SH 00	45-65 SH 00	38-55 SH 00	/	/	/	/	/	63 SH 00	/	/	/
Compression Resistance	14/35 KPa (25% 22 h Room T.)	35/63 kPa (25% 22 h Room T.)	63/91 kPa (25% 22 h Room T.)	35/63 kPa (25% 22 h Room T.)	N.D.	N.D.	6,0 kPa (40%)	2,0 kPa (50%)	N.D.	N.D.	0,120 MPa (25% 22 h Room T.)	0,10 MPa (25% 22 h Room T.)	0,250 MPa (25% 22 h Room T.)
Water Absorbance (ASTM D 1056)	3%	0,70%	0,60%	0,90%	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Breaking lengthness (DIN 53571)	190%	129%	156%	236%	N.D.	200%	260%	150%	350-450%	381	N.D.	N.D.	N.D.
Breaking resistance (DIN 53571)	500 kPa	810 kPa	1001 kPa	756 kPa	/	130 kPa	160 kPa	250 kPa	N.D.	8,9 MPa	N.D.	N.D.	N.D.
Flame resistance	/	94 HB	94 HB	94 V0 >4mm (UL94)	UL94 V0	UL94 HF1 – MVSS302 SE	UL94 HBF	/	Fino a 200 - 260°C	N.D.	/	/	/
Using temperature (in continue)	From - 50 to 100°C up to 110°C intermitting	From –40 to +85°C up to 100°C intermitting	From –40 to +85°C up to 100°C intermitting	From –40 to +85°C up to 100 °C intermitting	From -45 to + 120°C	From –40 to + 80 °C up to 120 °C intermitting	From – 40 to + 120 °C	From – 40 to + 120 °C	From – 40 to + 120 °C	From – 40 to + 120 °C	From –35 to +110°C	From – 35 to + 110 °C	From – 35 to + 110 °C

Ex: B.R.300.200.**EPDM341**.1.MO.AD3M6.200 L= 1000 MM

Produkt anfragen

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