NES Material Data Sheet MC579 FKM 75 Shore Brown



Jun-2020 Revision: 2

MATERIAL FKM 75 Shore Brown

ASTM D 2000 M2HK 71 B37

DESCRIPTION Low compression set FKM O ring grade

Copolymer with 66% fluorine content

Cure system is Bisphenol

APPLICATION This material has excellent resistance to oils, fuels, lubricants, most mineral acids,

aliphatic and aromatic hydrocarbons.

This unique formulation of elastomer is specifically formulated and developed for Semiconductor Sealing Applications such as EUV lithography which require low outgassing very low compression

STANDARD

TYPICAL VALUES

properties.

TEMPERATURE Low temperature service limit -4°F (-20°C)

Upper temperature continuous service limit +400°F (+204°C)

PRODUCTS Extrusions (cords/profiles/tubes)

Hot Vulcanised O rings Moulding (custom/O rings)

PHYSICAL PROPERTIES ORIGINAL

ASTM D1817	2.26
ASTM D2240	79
ASTM D412	273
ASTM D412	1953 (13.46)
ASTM D395B	5.38
ASTM D1329	1.4 (-17)
	+3.17
	-34
	+133 (0.9)
	0.03
ASTM D471	
	-1.85
	-1.16
	-27
	ASTM D2240 ASTM D412 ASTM D412 ASTM D395B ASTM D1329

Information

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It is not intended to substitute any testing you may need to conduct to determine suitability of our products for your end use. Northern Engineering reserves the right to revise this information as new knowledge and experience becomes available. Northern Engineering makes no warranties and assumes no liability in connection with any use of the above information.

Tensile strength change Psi (Mpa)



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