New Metals & Chemicals Ltd

NEWMET SILICONE FOAM EXTRUSIONS
PROPERTIES

PROPERTY	UNITS	TEST METHOD	NMSFE200		NMSFE250		NMSFE400		NMSFE530	
			Specification Limits	Typical Values	Specification Limits	Typical Values	Specification Limits	Typical Values	Specification Limits	Typical Values
(1) Density	$Kg.m^{-3}$	BSENISO 845	200±40	195	250±40	256	400±40	400	530±40	550
(2) Hardness	Shore OO * Shore A	ASTM D2240	35±5 <5	35	45±5 5±2	45	65±5 17±3	64	80±5 30±10	82
(3) Compression Stress 40% strain	kPa	BSENISO 3386 Part 1, 2	50±40	50	90±40	90	160±40	160	580±150	584
Tensile Strength	$N.mm^{-2}$	BSENISO 1798	0.5 min.	0.9	0.75 min.	1.2	1.0 min.	1.6	1.5 min.	3.2
Elongation to Failure	%	BSENISO 1798	75 min.	120	100 min.	200	75 min.	150	100 min.	190
Compression Set 22 hrs @ 70°C	%	BSENISO 1856 Type A	20 max.	16	15 max.	10	15 max.	10	15 max.	10

Our NMSFE range of predominantly closed cell silicone foams are available as sheet and extruded parts. Colour matching is available.
Our FR grades have been tested to ABD 0031 and FAR 25-853 vertical and horizontal fire tests.
NMSFE silicone foam operates between –60 degrees C and + 200 degrees C.
Adhesive backed sheets, tapes and gaskets are available.

(1) Density measured on 25mm diameter cord sample. The density of samples of different sizes will be different from that stated here.
(2) Hardness measured on 10mm thick samples. At less than 10mm the measured hardness will increase with density.
(3) Compression stress measured on 25mm thick sample. The compressive stress of the material increases with the density as the sample thickness is reduced.
*It is not possible to perform a shore A hardness test on sponge material. These values are provided as a guideline for comparison to solid materials and as such are not designed for use in specifications.
For further information about physical properties or to request samples, please contact our sales department.

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