NMG EUROPE

MOULDFOAM®

Beyond the state of the art: Mould is appreciated for its extreme hardness and smoothness in modelling and tooling. Characterized by a very dense, fine surface, Mould allows to achieve perfect surface smoothness, both in flat and complex design. Thanks to high bulk consistency, Mould guarantees excellent structural strength and prevents from cracking risks.

In addition to smoothness and hardness Mould offers:

STABILITY

- dimensional stability is guaranteed also with respect to thermal conditioning or chemical agents

PROCESSABILITY

- cut and shaped easily, both by hand tools and CNC milling machine
- allowing to reproduce from flat to complex design with perfect edge definition
- wide compatibility with all common adhesive, glues, or finishing coatings
- excellent results in terms of surface smoothness, avoiding the need of paste or other surface treatment

MACHINABILITY

- behaviour during machining, shavings are generated with no dust

Models, prototypes

Architectural moulds and cladding/structural panels for interiors/façade

Structural panels for trade show stands

Cladding for movie/performance sets, theme parks

Wall panels, lining & interior wall material for RV, Camper &

Lightweight structural board in furniture elements and structural reinforcements

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For more info please visit:
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Mould – SMOOTHNESS AND HARDNESS

Innovative PU-based material available in lightweight tooling boards, Mould has been specifically designed as modelling material or for tooling applications; it is used to create styling and design models, masters for composite and layup tools, prototypes, master models, and mould patterns.

Technical properties data - Customization possible upon request

Mould uniformity is significantly high, thus excellent consistency is guaranteed throughout the foam board, with no density change among different sheets nor for different batches. Constancy of density and mechanical properties are guaranteed by our innovative process and proved by routine testing at single production batch level; test data reported represent average production figures referring to over 10 years of product manufacturing and testing.

Property	Standard	Unit	80	150	240	350	420
Density	ASTM D 1622	kg/m^3	80	150	240	350	420
			75 - 90	140 - 160	225 - 255	330 - 360	400 - 440
Compressive strength	ASTM D 1621	MPa	0.8	2	4	7.5	11.5
Compressive modulus	ASTM D 1621	MPa	40	70	170	330	420
Bending strength	ISO 178	MPa	1	2.5	5	9	13
Hardness	ISO 868	shore	Na	13	25	35	45
CTE	ISO 11359	$10^{-6}K^{-1}$	60	70	70	70	70
Milling behaviour	Roughness Rz after milling	µm	140	100	85	65	40
Service Temperature		°C	-180 +95	-180 +60	-180 +60	-180 +60	-180 +70
(*) Process Temperature		°C	130	85	80	80	100

(*) maximum 1 hour

Standard dimensions - Customization possible upon request

Property	Unit	80	150	240	350	420
Length	mm	2000	2000	2000/1500	2000/1500	2000/1500
Width	mm	1000	1000	1000/500	1000/500	1000/500
Thickness	mm	50 - 450	50 - 300	50 - 250	50 - 200	50 - 200

Contact us for further information, test data report, comparative studies, references: sales@nmgonline.it

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