

# CORAFOAM® U 40

## Product Data Sheet



Rigid closed-cell polyurethane foam  
**Blowing agents:** CO<sub>2</sub>, CO

Main properties	Method	Test conditions		U.o.M.	Typical value
Nominal density	EN 1602/ASTM D1622			lb/ft³	4,0
Thermal conductivity	EN 12667/ASTM C518/ASTM C177	50°F	Initial	BTU·in/hr·ft 2.°F	0,17
		75°F	Initial	BTU·in/hr·ft 2.°F	0,18
Colour					Brown
Closed-cell content	EN ISO 4590/ASTM D6226			%	> 95
Operating temperature				°F	-328 / 176
Mechanical properties	Method	Test conditions		U.o.M.	Typical value
Compressive strength	EN ISO 29469/ASTM D1621	73°F	Parallel	psi	83
		73°F	Perpendicular	psi	73
73°F		Parallel	psi	3046	
73°F		Perpendicular	psi	2756	
Flexural strength	EN 12089/ASTM C203	73°F	Parallel	psi	116
Flexural modulus		73°F		psi	3626
Tensile strength	EN 1607/ASTM D1623	73°F	Perpendicular	psi	131
		73°F		psi	105
Shear strength	EN 12090/ASTM C273	73°F		psi	65
Shear modulus		73°F		psi	725
Dimensional stability	EN 1604/ASTM D2126	158°F	Length	%	-0,8 / 0,8
		158°F	Width	%	-0,8 / 0,8
		158°F	Thickness	%	-0,8 / 0,8
Fire properties	Method	Test conditions		U.o.M.	Typical value
Fire reaction	DIN 4102			Classe	B3
	EN 13501/EN 11925		Blocks, sheets	Euroclasse	F
Other properties	Method	Test conditions		U.o.M.	Typical value
Water absorption by volume	EN 12087/ASTM D2842			%	< 1,5
Coefficient of linear thermal expansion CTE	EN 13471/ASTM D696	70°F/118°F		1/°F·10E-6	33
Surface hardness	EN ISO 868/ASTM D2240		Shore A	Shore A	-
	EN ISO 868/ASTM D2240		Shore D	Shore D	-

Remark: the terms parallel and perpendicular refer to the thickness direction of the slab or block

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### Remarks

The values indicated represent the typical properties obtained through laboratory tests under controlled boundary conditions and do not in any way constitute sales specifications. They are based on the current knowledge and experience of DUNA-USA when products are stored, handled and applied in accordance with the recommendations contained in the Safety Data Sheet (SDS) or in the Information Sheet for safe use of the product.

It is the Customer's sole responsibility to verify the suitability of the product for its application purposes and its production process. It is also the Customer's responsibility to ensure that handling, storage and disposal take place in compliance with applicable laws and to ensure that the methods of application, personal protective equipment (PPE) and the workplace are suitable and compliant with current regulations. For information relating to PPE, transport, storage and disposal of product residues, it is essential to refer to the SDS or the Information Sheet for safe use of the product.

It is recommended to store in the original packaging, in a covered, dry place, away from direct sunlight and away from heat sources.

DUNA-USA declines all responsibility for direct and indirect damages of any nature to persons or property including loss of profits.

This edition cancels and replaces all previous ones. DUNA-USA reserves the right to modify the data contained in the information sheet at any time, at its discretion.