

ACRYLICFOAM® EP

ACRYLICFOAM® is a closed-cell rigid PMI (Polymethacrylimide) foam, which used as the core of lightweight sandwich structure.

EP is an improved and economic grade. It is suitable for low-medium temperature curing epoxy resin system and suitable (based on density) for various curing processes (Autoclave, vacuum infusion, RTM, VARTM, VARI, HP-RTM, etc.). It also can be easily thermoformed or CNC machined. The design of the cells in this grade and the closed cell structure of the foam ensure a good balance between peel strength and product weight when building sandwich structure parts.

TYPICAL PROPERTY VALUES

ACRYLICFOAM® EP-MC

MC is a medium cell structure, which can get a good balance between peel strength and light weight requirements.

Properties	Unit	31 EP-MC	51 EP- MC	71 EP- MC	110 EP- MC	Standard
Density	kg/m ³	32	52	75	110	ISO 845
	lbs/ft ³	2	3.25	4.68	6.87	ASTM D1622
Compressive Strength	MPa	0.4	0.9	1.6	3.4	ISO 844
	psi	58.01	130.53	232.06	493.13	ASTM D1621
Tensile Strength	MPa	1	1.9	2.3	3.4	ISO 527-2
	psi	145.04	275.57	333.59	493.13	ASTM D638
Shear Strength	MPa	0.4	0.8	1.3	2.4	DIN 53294
	psi	58.01	116.03	188.55	348.09	ASTM C273
Elastic Modulus	MPa	33	65	90	152	ISO 527-2
	psi	4786.24	9427.45	13053.40	22045.74	ASTM D638
Shear Modulus	MPa	14	22	33	57	DIN 53294
	psi	2030.53	3190.83	4786.24	8267.15	ASTM C273
Elongation at Break	%	5	5	5	5	ASTM D638
HDT	°C	155	155	155	155	DIN 53424
	°F	311	311	311	311	

The above technical data are typical values at nominal densities



Sales Range

Grade	Size (mm)	Standard Sheet Thickness (mm)	Possible Sheet Thickness (mm)
31 EP	2500*1250	100	1-145mm
51 EP	2500*1250	90	1-130mm
71 EP	2500*1250	80	1-115mm
110 EP	2160*1100	70	1-100mm

Thickness tolerance \pm (0.5mm), others are available upon request

Disclaimer

Our technical advice on the applications of our products is given without obligation.
The buyer is responsible for their use and processing, and is also liable for observing any third-party rights.

Technical data concerning our products are typical values. Subject to alteration.

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