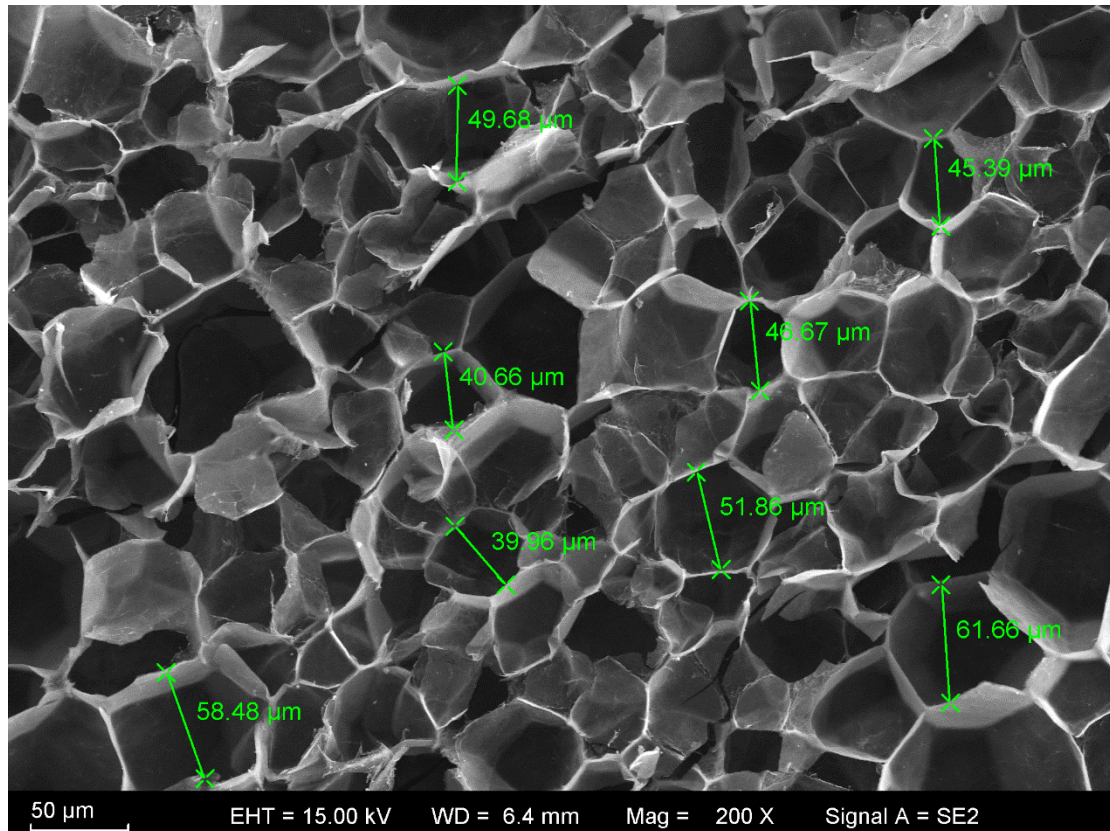


ACRYLICFOAM® VP

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



VP (Valued Product) is an modified economic grade. It has excellent mechanical and thermodynamic properties, as well as good elongation at break, making it an ideal core material for antennas, loudspeakers, and medical applications. This grade can be compatible the process conditions of 130°C and 0.3 MPa. It is suitable for various curing processes (autoclave, vacuum infusion, RTM, VARTM, VARI, HP-RTM, etc.). Also, it has good processability and can be easily thermoformed or CNC machined. The fine cell design of 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 VALUE

Properties	Unit	31 VP	51 VP	71 VP	110 VP	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	0.34	0.76	1.45	2.72	ISO 844
	psi	49.31	110.23	210.30	394.50	ASTM D1621
Tensile Strength	MPa	0.85	1.58	2.49	2.72	ISO 527-2
	psi	123.28	229.16	361.14	394.50	ASTM D638
Shear Strength	MPa	0.33	0.66	1.12	1.92	DIN 53294
	psi	47.86	92.72	162.44	278.47	ASTM C273
Elastic Modulus	MPa	27.60	57.04	78.96	121.60	ISO 527-2
	psi	4003.04	8272.95	11452.18	17636.59	ASTM D638
Shear Modulus	MPa	10.96	17.12	28.88	45.60	DIN 53294
	psi	1589.61	2483.05	4188.69	6613.72	ASTM C273
Elongation at Break	%	4.45	3.23	3.34	4.40	ASTM D638
HDT	°C	165	165	165	165	DIN 53424
	°F	329	329	329	329	

The above technical data are typical values at nominal densities

Sales Range

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

Thickness tolerance± (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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