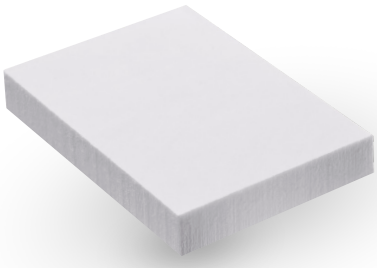

TECHNICAL DATA

PET Foam | **Divinycell PA**

Low density PET sandwich core ideal for a wide range of applications

Divinycell PA is a fully recyclable, cost-effective PET foam core developed for semi-structural sandwich composite applications in automotive, mobility, industrial, and construction markets. With high shear elongation and ductility, it is an excellent choice for thermoforming, compression moulding, and press bonding. As a welded PET foam, PA offers soft weld lines that deliver superior surface aesthetics – a key advantage for automotive interiors and other applications where visual finish matters.

Mechanical properties

Property	Test Procedure[1]	Unit		PA60
Compressive Strength[2]	ASTM D 1621	MPa	Nominal	0.67
			Minimum	0.51
Compressive Modulus[2]	ASTM D1621-B-73	MPa	Nominal	64
			Minimum	47
Tensile strength[2]	ASTM D 1623	MPa	Nominal	1.78
			Minimum	1
Tensile modulus[2]	ASTM D 1623	MPa	Nominal	78
			Minimum	40
Shear Strength[3]	ISO 1922	MPa	Nominal	0.55
			Minimum	0.33
Shear Modulus[3]	ISO 1922	MPa	Nominal	13
			Minimum	9
Shear elongation[3]	ISO 1922	%	Nominal	40
Shear Strength[4]	ISO 1922	MPa	Nominal	0.54
			Minimum	0.32
Shear Modulus[4]	ISO 1922	MPa	Nominal	11
			Minimum	6.5
Shear elongation[4]	ISO 1922	%	Nominal	42
Density	ISO 845	kg/m³	Nominal	70
			Maximum	75
			Minimum	65

1. All values measured at +23°C. Testing is done on foam with welding lines.
2. Properties measured perpendicular to the plane
3. Properties measured parallel to the welding lines, 1-3 direction
4. Properties measured perpendicular to welding lines, 2-3 direction

Nominal value is an average value of a mechanical property at a nominal density.
Minimum value is a minimum guaranteed mechanical property a material has independently of density.

Product characteristiscs

- Recyclable
- Excellent ductility and thermoformability
- Good thermal insulation
- Superior aesthetic surface of the finished sandwich parts of automotive interior
- Good chemical resistance
- Resistance to high processing temperature
- Suitable for a variety of processes
- Compatible with most resins used in the composite industry

Typical application areas

Automotive | Building & Construction | Transportation | Other industries

Technical characteristiscs

Characteristics[1]	Unit	PA60	Test method
Density variation	%	± 5	-
Thermal conductivity[2]	W/(m-K)	TBD	ASTM C518

1. Typical values are approximate
2. Thermal conductivity measured at +10°C

Maximum processing temperature is dependent on time, pressure and process conditions. Therefore users are advised to contact Diab Technical Services to confirm that Divinycell PA is compatible with their particular processing parameters.

Dimensions

Format		Unit	PA60
Plain sheets	Length	mm	2440
	Width	mm	1220
	Thickness	mm	3-70
GS sheet	Length	mm	1220
	Width	mm	1220
	Thickness	mm	5-50

Other dimensions are available on request.

Storage of product

The shelf life of Divinycell is unlimited when it is stored in its original package on ambient indoor storage conditions and protected against UV exposure.

For more info visit:
diabgroup.com/contact