NIDA CORE®
STRUCTURAL HONEYCOMB MATERIALS

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Product Data Sheet: NidaFoam 3D

- Excellent mechanical properties – high shear and compression strength
- Especially recommended for application with high temperatures
- Excellent chemical resistance against dissolvent, benzene, light acids under regular environmental circumstances
- Closed cell structure indicated a low resin uptake
- No water absorption
- Good thermal insulation
- Thermo formable
- Available 5-24 mm (3/16"-1")thicknesses, cell diameter 26mm(about 1")
- Sheet size 11"X47" (depending on precursor material)

	Unit	3D PET 100	3D PET 150	PU
Nominal Density after infusion ISO 844	kg/m³ lb/ft³	186.6 11.4	236 14.4	9.4
Compression Strength ISO 844 Mpa	Mpa Psi	6-8 870-1160	23.1 3451	6 870
Compressive Modulus ISO 1922	Mpa Psi	250 36250	640 92800	220 31900
Shear Strength ISO 1922	Mpa Psi	.94 136.4	1.7 255	.91 132.60
Shear Modulus ISO 1922	Mpa Psi	18.36 2662.7	54.4 7888	11.1 1621.8
Shear Elongation at Break ISO 1922	%	4-5.5	4.2	NA
Structural Stability 7h+ ESC PT 206	C	175	175	130
Thermal Conductivity ISO 12667	W/mK	0,026	0,035	0,028
Fire Resistance DIN 4102	B2		B2	M1
Flammability FMVSS 302	Mm/min	Self extinguishing	Self extinguishing	Self extinguishing
Recyclability TASI	%	100	100	NA

Lloyd's Register ABS DNV