



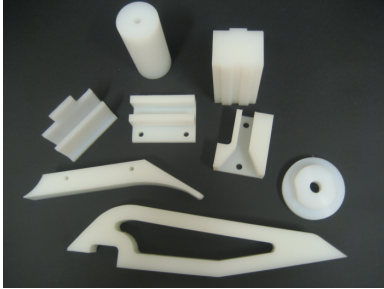
Gantiel Vensott Pty. Ltd.

Venboard 3N/3B

[Natural/Black HDPE]

TECHNICAL DATA SHEET:

Polyethylene Product Description



Gantiel Vensott's High Density Polyethylene or Venboard 3 is a material that exhibits the properties of high impact strength, abrasion resistance, and low coefficient of friction. It is also moisture, stain and odor resistant, and is FDA approved to be used in the food processing industry, in a natural grade.

Other Material Properties

Gantiel's Venboard is a very rigid material available in large sheets for general use in plant engineering, tank construction and waste water industry where all round chemical resistance and weatherability are required. It is also widely used in mechanical parts and cutting boards applications.

Venboard 3N/3B Applications

Plastic Fabrication

- Machined parts
- Storage Vessels
- Tank, hopper, chute and silo linings
- Valve and pump components
- Structural and chemical Tank covers
- Waste Water Chemical Process Industry
- Food Industry specialty parts
- Cutting Boards
- Butchers Preparation Table
- Spacers
- Basic Rollers



Property	Method of verification	Unit	Value
GENERAL			
Density	DIN EN ISO 1183	g/cm ³	0.96
UV			GOOD
Water Absorption	DIN EN ISO 62		<0.05
Chemical Resistance	High resistance against acids, alkalis and solvents		
Welding			Yes
MECHANICAL			
Yield stress / Tensile Strength	DIN EN ISO 527-1	N/mm ²	30
Tensile modulus of elasticity	DIN EN ISO 527-1	MPA	1000
Elongation at break	DIN EN ISO 527-1	%	>50
Impact strength KJ/m ²	DIN EN ISO 179		No break
Shore hardness	DIN EN ISO 868		66
THERMAL			
Melting temperature	ISO 11357-3		135
Specific thermal capacity	DIN ISO 52612	J / (kg.K)	1.9
Thermal conductivity	DIN ISO 52612-1	W (Mk)	0.4
Coefficient of linear thermal expansion	DIN ISO 53752	1/K 10	150...230
Temperature Range °C short term		°C	80
Temperature Range °C long term (max)		°C	-100+80
Heat deflection temperature	DIN EN ISO 306 VICAT A	°C	
	DIN EN ISO 306 VICAT B	°C	80
Dielectric constant	IEC 60250		2.4
Surface resistivity IEC 60093			10 ¹⁴
Dielectric strength	IEC 60243	KV/mm	45
Comparative tracking index	IEC 60112		600

Venboard 3N/3B Delivery Program

(white/ black)

Venboard 3N/3B Sheet

2mm to 100mm-2000mm x 1000mm
10mm to 60mm-2440mm x 1220mm
3mm to 40mm-3000mm x 1500mm
Some other specialty sizes on request.

Venboard 3N/3B Rod

Outside Diameter: 10mm to 200mm—On request only



Key Features and Benefits:

Weldable - suitable for fabrication

Light weight - easy to handle without special equipment.

High impact Strength

Physiologically inert - approved for food applications in natural or specialty colors.

Electrical insulation - it is a good insulator.

Vacuum/Thermo formable—Easily fabricated

Weatherproof—it doesn't absorb water.

Chemical resistance—resists corrosive chemicals (Good UV resistance in Black only)

Gantiel Vensott Pty. Ltd.

— **Engineering Plastic Solutions** —

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