Product Information/Technical Data Sheet

Product Name: VENBOARD 3B/3N

Trade name:	Venboard
Designation:	Polyethylene
Colour:	Black/Natural

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 odour resistant, and is FDA approved to be used in the food processing industry, in a natural grade.

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.



Applications & Industry						
Plastic Fabrication		Waste \	Nater Chemi	cal Process Industry		
Machined parts			Food Industry specialty parts			
Storage Vessels		Cutting Boards				
Tank, hopper, shute and silo linings		Butcher	Butchers Preparation Table			
Valve and pump components		Spacers				
Structural and chemical tank covers		Basic Rollers				
Key Features and Benefits						
Weldable - suitable for fabrication		Vacuum	icuum/Thermo formable—Easily fabricated			
Light weight - easy to handle without special equipment		Weathe	Weatherproof—it doesn't absorb water			
Physiologically inert - approved for food applications in nat	ural or	Chemical resistance—resists corrosive chemicals				
specialty colours		Good U	Good UV resistance (Black only)			
High impact Strength		Electrical insulation - it is a good insulator				
Sheets – Thickness						
Sheets – Size		2mm to 100mm—2000mm x 1000mm				
		10mm to 60mm—2440mm x 1220mm				
		3mm to 40mm—3000mm x 1500mm				
		Note: S	Note: Specialty sheet size are available on request			
Venboard 3B/3N Rod		Outside Diameter: 10mm to 200mm on rec		10mm to 200mm on request only		
General Properties						
	Method of		Unit	Value		

	Method of	Unit	Value
	verification		
Density	DIN EN ISO	g/cm³	0.96
	1183		
UV			Good
Water Absorption	DIN EN ISO 62		<0.05
Chemical Resistance			High resistance against acids, alkalis and
			solvents
Welding			Yes

Mechanical Properties				
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 Properties				
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 0 ^c short term		°C	80	
Temperature Range O ^C long term (max)		°C	-100 +80	
Heat deflection temperature	DIN EN ISO 306 VICAT A	°C		
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	
				Please note: 1g/cm3=1000kg/m3 1MPa=1N/mm2 1KV/mm=1MV/m
Hazards possibilities				
Classification: Not classified				
Composition / Information on ingredients				
Chemical characterisation: Polymer of ethylene				
CAS number: Not necessary				
First aid measures				
General information: CO2 dry chemical foam or wa	ter fog			
First aid measure: None				
Symptome (offecter None				
Symptoms / enects: None				
Fire fighting measures				
Fire optime viewing medice Medical aid is not recovery	. <i>.</i>			
Fire extinguishing media: Medical aid is not necessary				
Hazard warning notice: Not applicable				
Special hazards arising from the substance or mixtur	es: When in a fire	e, may produ	ice irritating	
Accidental release measures				
Personal precautions: None				
Protective equipment: NA				
Cleaning equipment: NA				
Unsuitable cleaning products: NA				
Handling & Storage				
General precautions: Eliminate all possible sources o	f ignition			
Handling: No special regulations must be observed				
Storage: Unlimited good storage property				
Exposure controls / Personal protection				
Exposure measurement procedure: None				
Tolerance levels: None				
Special design of tech, processing facilities: Not requ	ired			
Body protection: Not required				
Physical & Chemical properties				
Appearance: Sheet semi-finished product solid stat	e			
Colour: Natural red vellow green reddish brown blue black				
Smell: NA	nac, black			
Fusion interval: 130 140°C				
Elach point: NA				
riash pullit. NA				

Density: 0.958 to 0.967 g/cm ³
Stability & reactivity
Thermal decomposition: Temperatures above 300°C
Dangerous decomposition products: Besides carbon black also carbon dioxide and water as well as low molecular parts of PE
will develop during the burning process. In case of incomplete burning also carbon monoxide may rise
Use of stabilisers: None
Notices regarding state of aggregation: None
Conditions to be avoided: None
Substance/media to be avoided: None
Exothermic reactions None
Toxic indications
Toxicity: Are biologically inert polyolefins. Due to its composition the product should be considered as harmful
Ecological indications
Accumulation: NA
Exo-toxicity: NA
Mobility: NA
No suitability in water, persistent in the environment, this substance is not readily biodegradable
Water-disposal indications
Waste: According to the local legislation, recovery by an authorised agent
Recycle material whenever possible
Transport information
Road (ADR/TPC): Not restricted for transport
Railroad: Not restricted for transport
Maritime: Not restricted for transport
Air transport: Not restricted for transport
Notices / symbol transport container: None
Special markings for containers: None
No dangerous product in respect to/according to transport legislation
Instructions
Classification: No obligations for marking
Domestic requirement to be observed: None
Water danger class: Class 0 (self classification)
With the managing specifications, which correspond to the today's conditions of our knowledge and experiences, we want to
describe our product regarding any safety requirements. We connect with it however no characteristic warranties. Consisting
laws and analyses are to be observed by the receiver of our product within own responsibility

THIS MSDS HAD BEEN MADE IN ACCORDANCE WITH THE EXACT INFORMATION AND VALUES FROM OUR PRINCIPLE SUPPLIER OF THIS PRODUCT— Durplastics

Version Date: 01-06-2022

P +61 2 9609 5090 F +61 2 9604 3011 A 4 Davis Road, Wetherill Park NSW 2164 P P.O.Box 586 Baulkham Hills NSW 1755 ABN: 87 108 071 512

All information supplied by or on behalf of Gantiel Vensott Pty. Ltd. In relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and believed reliable at time of printing. Data is predominantly supplied by our principal suppliers and from a reputable source. But Gantiel Vensott Pty. Ltd. assumes no liability whatsoever in respect of application, processing or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, processing or use of the aforementioned information or products, or any consequence thereof. No liability whatsoever shall attach to Gantiel Vensott Pty. Ltd. for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of the application, processing or use of the aforementioned information or products by the buyer