

BioClad

PROPERTIES PHYSICAL DATA					
Physical	Specific Gravity	ASTM D792	g/cm ³	1.4	
Characteristics	Rockwell Hardness	ASTM D785	R-Scale	R115	
Mechanical	Tensile Strength	ASTM D638	Kgf/cm ²	600	
Properties	Elongation	ASTM D638	%	100	
	Bending Strength Youngs Modulus of	ASTM D790	Kgf/cm ⁻	1,000	
	Elasticity	ASTM D790	Kgf/cm ²	34,000	
	Impact Resistance (Izod)	ASTM D256	Kgfcm/cm ²	5.0	
Thermal	Heat Distortion				
Properties Properties	Temperature	ASTM D648	°C	60	
	Coefficient of Linear				
	Expansion	ASTM D696	cm/cm C	7.0x10-5	
Electrical	Dielectric Breakdown				
Properties	Voltage	ASTM D149	kv/mm	22-35	
CHEMICAL RESISTANT PROPERTIES					

NAME OF CHEMICAL	TEMP C	NAME OF CHEMICAL	TEMP
Hydrochloric Acid 35% Sulphuric Acid 60% Nitric Acid 70% Formic Acid Lactic Acid Caustic Soda Ammonia Water Sodium Disulphide Acetone Ethyl Alcohol Butyl Alcohol Benzene	20 40 60 V V V V V V V G P V V V V V V V V V V V V V V V V V G P P P P V V G V G G P P -	Petrol Glycerine Nitric Acid Solution of Spraying Paint Chlorine Gas Ammonia/Other Waste Gases Natural Gas Coal Gas Bleaching Solution Electro-Plating Developing (Liquid for Photog) Sea Water / Salt Water Fermented Alcohol	20 40 60 V V V P P P P P P V V G V V - G G - V V - V V G V V - V V G V V - V V G
Formalin	V V G	Starch (Carbohydrate) Solution	\vee \vee \vee
Carbon Disulphide	P P -	Brewing Water	V V V
REMARKS	V G P	Denotes safely applicable (absolu Denotes applicable (corrosion resi Denotes inapplicable	

BioClad is suitable for cladding in food preparation areas such as dairies, abattoirs and bakeries. This has been confirmed by the Ministry of Food, Fisheries and Agriculture and also local Health Authorities.

BioClad meets the following regulations:

STATUTORY INSTRUMENTS 1172 – 1970 – Food Hygiene (General) Regulations 1920 STATUTORY INSTRUMENTS 2037 – 1992 – Fresh Meat Regulations 1992

Milk and Dairies Regulations 1959 No 277

ISO 22196:2011

ASTM E84, EN 13501-12007 + A1:2009 C-s1-d0, BS 476 part 6 clas '0', part 7 class '1', AS/NZS 3837:1998

BioClad: This material is impact resistant to a wide variety of shocks, offering resistance to a wide range of chemicals including alkalis, acids, alcohols etc. as well as powerful resistance to salt air and aggressive industrial environment. Minimal water absorption means that steam cleaning to a maximum temperature of 60 C and power hosing will have no effect, and micro organisms and rodents present no difficulty. The material has obtained a Fire rating "Class 1" BS 476 Part 7 1971 "Surface Spread of Flame" and has also been tested in France "Class 1"for all thicknesses from 0.8 to 6.00mm (LSTB-LNAMSTELF, PARIS).

The material should be cleaned by using warm soapy water, or stubborn stains and marks may cleaner such as Cif (Jif).PVC Cream of Solvent cleaners are also available if required.

BioClad contains silver phosphate glass antimicrobial technology to preserve the surface and prevent degradation caused by microbial growth. Biocide certified by ECHA, FDA and the EPA. BDR compliant. Antimicrobial is an additional line of defence beyond antibacterial with the power to kill fungi, microbes and protozoans as well as bacteria. BioClad's antimicrobial comes with a lifetime guarantee. BioClad's antimicrobial additive is HACCP registered.