PLASIAX™ PURE

PURITY IN THE SIMPLEST FORM

DESCRIPTION

Plasiax™ Pure PVC is a semi-rigid, opaque flat building material made of food-safe polyvinyl chloride. Plasiax™ Pure PVC panels are designed for use on interior walls where a hygienic, easy to clean surface is required.

OPERATIONAL TEMPERATURE RANGE

Panels will perform in temperatures from 0°c to 50°c.

CERTIFICATIONS

1. The panel has a Class '1' flame spread (per BS476 Part 7) and Class '0' fire propagation* (per BS476 Part 6).
2. Plasiax™ Pure PVC is certified to pass Food Taint Tests.

PROPERTY	TEST METHOD	CONDITIONS	UNITS	VALUE
PHYSICAL				**RIGID PVC**
Relative Density	ASTM D-0505		g/cm^3	1.4
Water Absorption	ASTM D-570	24 hr @ 23˚C	%	0.03
MECHANICAL				
Tensile Strength at yield	ASTM D-638	10mm/min	MPa	71
Tensile Strength at break	ASTM D-638	10mm/min	MPa	35
Elongation at yield	ASTM D-638	10mm/min	%	3
Elongation at break	ASTM D-638	10mm/min	%	95
Tensile Modulus of Elasticity	ASTM D-638	1mm/min	MPa	3100
Flexural Modulus	ASTM D-790	1.3mm/min	MPa	3200
Flexural Strength at yield	ASTM D-790	1.3mm/min	MPa	103
Izod Impact Strength	ASTM D-256	Notched	J/m	35
Charpy Impact Strength	ISO 6603	Notched	J/m	95
Impact Falling Weight	ISO 6603	3mm sheet	J	95
Rockwell Hardness	ASTM D-785		R Scale	115
THERMAL				
Service Temperature			°C	0 to 50°C
Heat Distortion Temperature	ASTM D-648	Load: 1.82MP	°C	62-65
Vicat Softening Temperature	ASTM D-1525	Load: 1kg	°C	86
Coefficient of Thermal Expansion	ASTM D-696		cm/cm°C	6.7×10^{-5}
Thermal Conductivity	C-177		W/m˚K	0.15
Specific Heat Capacity	C-351		kJ/kg˚K	1.26

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PROPERTY	TEST METHOD	CONDITIONS	UNITS	VALUE
OPTICAL				
Light Transmission	ASTM D-1003	%		
Refractive Index	ASTM D-542			
Yellowness Index	ASTM D-1925			
Haze	ASTM D-1003	%		
ELECTRICAL				
Dielectric Strength	ASTM D-149	500V/s	kV/mm	50
Surface Resistivity	ASTM D-257	Keithley	Ω	$3.7x10^4$

Other physical properties and values available on request.

FLAMMABILITY

STANDARD	CLASSIFICATION
EN13501	B, s3, d0
DIN 4102	B1
BS476 Part 7	Class 0
ASTM E-84	Class A

Note: Rigid PVC has a self-extinguishing property. If ignited in air, it will die by itself. Subsequently, rigid PVC complies with the most demanding fire resistance standards as indicated by these representative results.