



SRBP P 3 PAPER LAMINATE

Properties	Units	Values
Density	g/cm ³	1.35
Water Absorption		
1.6mm	mg	39
3.0mm	mg	47
6.0mm	mg	56
12.0mm	mg	70
Thermal Properties		
Max. allowable service temperature :		
- for short periods	°C	120
- continuously	°C	90
Thermal classification	-	E
Flammability category	-	-
Thermal conductivity through laminate	W/(mk)	0.20
Thermal expansion in plane of laminate	x10 ⁻⁵ /K	20-40
Specific heat	KJ / (kgK)	-
Mechanical Properties at 23°C		
Cross breaking strength	MPa	175
- at 150°C (after 1 hour at 150°C)	MPa	-
- at 150°C (after 100 hours at 150°C)	MPa	-
Charpy impact strength - Unnotched	kJ/m ²	-
Charpy impact strength - Notched	kJ/m ²	2.7
Compressive strength - Flatwise	MPa	120
Compressive strength - Edgewise	MPa	-
Resistance to flatwise compression	%	1.2
Flexural strength - Flatwise	MN/m ²	80
Shear strength	MPa	105
Electrical Properties at 23°C		
Resistance between plugs after 24hrs in water at 23°C	-	10
Loss tangent at 1MHz	-	0.037
Permittivity at 1MHz	-	5.1
Dielectric constant Er	Er	5
Comparative tracking index (CTI)	-	100
Specifications		
BS2572 Type P3		
BSEN60893 Type 3-4-PFCP206		

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