

## Jain Americas, Inc.

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## **EXCEL EDGE COEX PVC FREE FOAM SHEET ASTM REFERENCE SHEET**

Excel **Edge** PVC Free Foam Sheet is free from lead, cadmium, barium and other heavy metals.

Hardness       ASTM D 2240       Shore         Water Absorption       ASTM D570       %         MECHANICAL       Tensile Strength       ASTM D 638       Psi         Elongation       ASTM D 638       Psi         E-Modulus       ASTM D 638       Psi         Izod Impact Strength       ASTM D 790       Psi         THERMAL         Vicat (B/50)       ASTM D 1525       °F         Coefficient of Linear Thermal Expansion       ASTM D 696       °C-1         Thermal Conductivity       ASTM C 177       W/m         Burning Rate       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	PROPERTY	TEST	UNIT	VALUE
Hardness       ASTM D 2240       Shore         Water Absorption       ASTM D570       %         MECHANICAL       Tensile Strength       ASTM D 638       Psi         Elongation       ASTM D 638       Psi         E-Modulus       ASTM D 638       Psi         Izod Impact Strength       ASTM D 790       Psi         THERMAL         Vicat (B/50)       ASTM D 1525       °F         Coefficient of Linear Thermal Expansion       ASTM D 696       °C-1         Thermal Conductivity       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	PHYSICAL			
Water Absorption       ASTM D570       %         MECHANICAL       Tensile Strength       ASTM D 638       Psi         Elongation       ASTM D 638       Psi         E-Modulus       ASTM D 638       Psi         Flexural Strength       ASTM D 790       Psi         THERMAL         Vicat (B/50)       ASTM D 1525       °F         Coefficient of Linear Thermal Expansion       ASTM D 696       °C-1         Thermal Conductivity       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	Density	ASTM D 1505	g/cc	0.50-0.65
MECHANICAL         Tensile Strength       ASTM D 638       Psi         Elongation       ASTM D 638       %         E-Modulus       ASTM D 638       Psi         Flexural Strength       ASTM D 790       Psi         Izod Impact Strength       ASTM D 790       Psi         THERMAL         Vicat (B/50)       ASTM D 1525       OF         Coefficient of Linear Thermal Expansion       ASTM D 696       OC-1         Thermal Conductivity       ASTM C 177       W/m         Burning Rate       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	Hardness	ASTM D 2240	Shore 'D'	40
Tensile Strength ASTM D 638 Psi Elongation ASTM D 638 % E-Modulus ASTM D 638 Psi Flexural Strength ASTM D 790 Psi Izod Impact Strength ASTM D 790 Psi  THERMAL  Vicat (B/50) ASTM D 1525 °F Coefficient of Linear Thermal Expansion ASTM D 696 °C-1 Thermal Conductivity ASTM C 177 W/m Burning Rate ASTM D 635 In/m  ELECTRICAL  Surface Resistivity ASTM D 257 Ω	Water Absorption	ASTM D570	%	< 1.0
Elongation ASTM D 638 %  E-Modulus ASTM D 638 Psi Flexural Strength ASTM D 790 Psi Izod Impact Strength ASTM D 790 Psi  THERMAL  Vicat (B/50) ASTM D 1525 °F Coefficient of Linear Thermal Expansion ASTM D 696 °C-1  Thermal Conductivity ASTM C 177 W/m  Burning Rate ASTM D 635 In/m  ELECTRICAL  Surface Resistivity ASTM D 257 Ω	MECHANICAL			
E-Modulus  Flexural Strength  ASTM D 790  Psi  Izod Impact Strength  ASTM D 790  Psi  THERMAL  Vicat (B/50)  Coefficient of Linear Thermal Expansion  Thermal Conductivity  ASTM D 696  ASTM D 696  OC-1  ASTM D 635  In/m  ELECTRICAL  Surface Resistivity  ASTM D 257  Ω	Tensile Strength	ASTM D 638	Psi	> 1885
Flexural Strength       ASTM D 790       Psi         Izod Impact Strength       ASTM D 790       Psi         THERMAL         Vicat (B/50)       ASTM D 1525       °F         Coefficient of Linear Thermal Expansion       ASTM D 696       °C-¹         Thermal Conductivity       ASTM C 177       W/m         Burning Rate       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	Elongation	ASTM D 638	%	>10
THERMAL  Vicat (B/50)  Coefficient of Linear Thermal Expansion  Thermal Conductivity  Burning Rate  ASTM D 635  ASTM D 696  OC-1  ASTM D 696  In/m  ELECTRICAL  Surface Resistivity  ASTM D 257  Ω	E-Modulus	ASTM D 638	Psi	130000-220000
THERMAL  Vicat (B/50)  Coefficient of Linear Thermal Expansion  Thermal Conductivity  ASTM D 696  OC-1  W/m  Burning Rate  ASTM D 635  In/m  ELECTRICAL  Surface Resistivity  ASTM D 257  Ω	Flexural Strength	ASTM D 790	Psi	>4350
Vicat (B/50)       ASTM D 1525       °F         Coefficient of Linear Thermal Expansion       ASTM D 696       °C-1         Thermal Conductivity       ASTM C 177       W/m         Burning Rate       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	Izod Impact Strength	ASTM D 790	Psi	>9
Coefficient of Linear Thermal Expansion       ASTM D 696       0C-1         Thermal Conductivity       ASTM C 177       W/m         Burning Rate       ASTM D 635       In/m         ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	THERMAL			
Expansion  Thermal Conductivity  Burning Rate  ASTM D 696  W/m  ASTM C 177  W/m  ELECTRICAL  Surface Resistivity  ASTM D 635  In/m	Vicat (B/50)	ASTM D 1525	°F	>150
Burning Rate ASTM D 635 In/m  ELECTRICAL  Surface Resistivity ASTM D 257 Ω		ASTM D 696	<sup>0</sup> C <sup>-1</sup>	5.56X10 <sup>-5</sup>
ELECTRICAL         Surface Resistivity       ASTM D 257       Ω	Thermal Conductivity	ASTM C 177	W/m K	0.1
Surface Resistivity ASTM D 257 $\Omega$	Burning Rate	ASTM D 635	In/min	No burn when flame removed
	ELECTRICAL			
Volume Resistivity ASTM D 257 Ω-cn	Surface Resistivity	ASTM D 257	Ω	>10 <sup>14</sup>
	Volume Resistivity	ASTM D 257	Ω-cm	>10 <sup>15</sup>
Dielectric Constant ASTM D 150 -	Dielectric Constant	ASTM D 150	-	1.7

Country: UK	BS476; Part 7	-	Class 1
Country: USA	UL 94		94 V-0; 94 5-V
Country: France	NFP 92-501		M1

## STANDARD DIMENSIONS AND COLOR

Color	Cap Layer White J 1022, J 1018 & J 1022 and Core Black
Thickness	3 to 12 mm
Width	1220 & 1525 mm
Length	2440 & 3050 mm

<sup>\*</sup>Special color, lengths and widths as per customer request

## **TOLERANCE ON DIMENSIONS**

Length	-0, +10 mm
Width	-0, +5 mm
Thickness	+/-(0.1 + 0.05 x S) Where S = thickness of the sheet

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