



Jain (Americas) Inc.

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Ex-cel PVC ASTM Reference Sheet

Technical Specifications: EX-CEL PVC Free Foam Sheet 10-30mm thickness

Technical Properties

Properties	Test	Unit	Value
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Physical

Density	ASTM D 792	g/cc	0.55
Hardness	ASTM D 2240	Shore 'D'	≥ 50
Water Absorption	ASTM D 570	%	≤ 1.0

Mechanical

Tensile Strength	ASTM D 638	Psi	≥ 2150
Elongation at Break	ASTM D 638	%	≥ 13
Modulus of Elasticity	ASTM D 638	Psi	130000 - 220000
Izod Impact Strength	ASTM D256	ft lb / in.	≥ 1.7
Charpy Impact Strength	ASTM D 256	ft lb / in.	≥ 1.7
Flexural Strength	ASTM D 790	Psi	> 4600
Compressive Strength at 10% Deformation	ASTM D 695	psi	> 900

Electrical

Surface Resistivity	ASTM D 257	Ω	> 1 x 10 ¹⁴
Volume Resistivity	ASTM D 257	Ω-cm	> 1 x 10 ¹⁵
Dielectric Constant at 1 MHZ	ASTM D 150	-	1.56
Dielectric strength	ASTM D 149	KV/cm	

Thermal

Vicat Softening Temperature (B/50)	ASTM D 1525	°F	> 160
Heat Deflection Temperature @ 1.8 MPa	ASTM D 648	°F	> 135
Coefficient of Linear Thermal Expansion	ASTM D 696	in/in °F	2.483 x 10 ⁻⁵
Thermal Conductivity	ASTM C 177	W/m K	0.05 - 0.07
Burning Rate	ASTM D 635	in/min	No burn when flame removed

Flammability

UK	BS 476 Part 7		Class 1 Y
France	NFP 92-501		Class M1
USA	UL 94		94 V - 0

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