

NEMA LD3 Comparison for KYDEX® 3D Laminates

For information applicable to KYDEX® FST please refer to 300 series technical briefs.

TB - 107

Introduction

The National Electrical Manufacturers Association (NEMA) Standards have been adopted in the public interest and are designed to eliminate misunderstandings between the manufacturer and the purchaser of high-pressure decorative laminates (HPDL) and to assist the purchaser in selecting and obtaining the proper product for their particular needs. SEKISUI SPI submitted KYDEX® XD, XD03 and XDWG for evaluation.

		KYDEX® XD	KYDEX® XD03	KYDEX® XDWG
LD3.3	Light Resistance – xenon arc	No Effect	Severe Effect	No Effect
LD3.4	Cleanability Resistance (Sum of Scores)	9	9	14
LD3.4	Stain Resistance (Reagents 1 – 10)	No Effect	No Effect	No Effect Reagent 3 Severe Effect
LD3.4	Stain Resistance (Reagents 11 – 15)	No Effect	No Effect	No Effect
LD3.5	Boiling Water Resistance	Severe Effect	Severe Effect	No Effect
LD3.6.3	High Temperature Resistance (oil)	Moderate Effect	Moderate Effect	Moderate Effect
LD3.7.2	Linear Glass Scratch Resistance	<50g	<50g	<50g
LD3.7.3	Diamond Scratch Resistance	3	3	2
LD3.8	Ball Impact Resistance (mm)	>3000	>3000	>3000
LD3.9	Dart Impact Resistance (mm)	>1075	>1075	>875
LD3.10.2	Radiant Heat Resistance - Coil (sec)	46	46	43
LD3.10.3	Radiant Heat Resistance - Strip (sec)	47	47	51
LD3.11	Dimensional Change (MD)	0.26%	0.26%	1.05%
LD3.11	Dimensional Change (CMD)	0.39%	0.39%	0.67%
LD3.12	Dimensional Stability (MD)	0.07%	0.07%	0.08%
LD3.12	Dimensional Stability (CMD)	0.03%	0.03%	0.07%
LD3.13	Wear Resistance (cycles)	3700	3700	650
Misc.	ASTM E-84 Surface Burning Characteristics	Class 1/A	Class 1/A	Class 1/A

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