haogenplast lab report

Oct-20

Technical Data Sheet – Eco UV+ 250

Product Description: a multi-layer semi rigid PVC decorative film formulated for out-door applications. Including top print design protection layer & primer bottom layer designed to eliminate plasticizer migration as well as improved panel lamination.
The foil is based on the cool pigment technology for low HBU values

Product Recommended Application– Suitable for lamination on PVC, Metal and Wood panels and profiles. Formulated & designed for 3D forming.

PROPERTIES	UNITS	Typical results	TEST METHOD
Gravimetric Thickness	mm	0.25	
Micrometric Thickness	mm	0.30	
Tensile Strength MD TD	kg/cm^2	 290 250	 BS 2782-3 Method 320
Elongation MD TD	%	 190 180	 BS 2782-3 Method 320
Tear Strength MD TD	kg/cm	 150 150	BS 2782-3 Method 360 ASTM-D-1004
Specific Gravity	g/cm^3	1.35	ASTM-D-792
Gloss	60°	5	
Dimensional Stability	%	Max. 3	100°c
Flame Retardant		self - extinguishing	BS 508C
Impact **	J/mm	2.5	ASTM D 5420
Cold Flex -25°C		Pass	Over a rod diameter of 30mm
Chemical and Stain resistance			Resistant to normal household cleaning agents. Easy to clean
UV resistance Xenon		> 12 GJ/m^2 (6000h)	DIN EN 513 , colour change > 3 level gray scale ISO 105-A02
Color Fastness*		8	Blue Scale ISO 105-B02-1988
Heat Build Up		Pass level 1(≤57º) Until 2 (≤62º)	(according to RAL-GZ 716 P322.2 temperature change after 90min exposure to 150 W IR lamp)

*** The Blue Wool Scale measures the color fading of the tested sample when exposed to light compared to the fading of 8 Blue fabric samples with different UV resistance.The change in the color (grey scale 4) of Eco UV+ is long after the change of the color of the Blue sample no. 8 Rating 8 is considered Excellent light fastness.**

Impact - This test method covers the determination of the relative ranking of materials according to the energy requires to crack rigid plastic specimens by falling weight.**

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