technical specifications



PVDF PRE-PAINTED ALUMINIUM SPECIFICATIONS					
Paint Quality	PVDF quality paint.				
	RAL or other of	olour standards o	can be supplied.		
Pretreatment	Chrome Free Pretreatment System.				
Coating	Type Of Paint Coating		Thickness (Microns)		
Primer	Polyester		5 ± 2		
Base Coat	PVDF		20 ± 2		
Clear Coat (Optional)	PVDF or FEVE (Lumiflon)		12 ± 2		
Total			32 - 42		
Backcoat (Optional)	Epoxy-Polyester		5 ± 2		
	Grey/Transparent				
PRODUCT PERFORMANCE					
Test Property		Specs	Test Results	Test Methods	
Color Matching (Solid Colors)		$\Delta E < 1.0$	AE < 1.0	ECCA-T3	
Gloss At 60°		Requirement	Under Tolerances	ECCA-T2	
			in EN1396		
T Bend		Requirement	0 – 1T	ECCA-T7	
Impact		7,5 Joule	Pass	ECCA-T5	
Cross-cut		100%	Pass	ISO 2409	
Pencil Hardness		F - HB	Pass	ECCA-T4	
MEK Resistance		100 DBR	Pass	ECCA -T11	
5% HCL Acid & 5% NaOH Alkali Test		24HRS	Pass	ASTM D2248-01a(2007)	
QUV-A Resistance		3000 Hours	Pass	ECCA-T10	
Humidity Resistance		3000 Hours	Pass	ASTM D2247	
Abrasion Resistance		< 40 mg	Pass	ISO 11998	
Salt Spray Test		3000 Hours	Pass	ECCA-T8	



HIGH-DURABLE-POLY	ESTER (HDPE)	PRE-PAINTED A	LUMINIUM SPECII	FICATIONS		
Paint Quality	High Durable Polyester quality paint.					
	RAL or other colour standards can be supplied.					
Pretreatment	Chrome Free I	Pretreatment Sys	tem.			
Coating	Type Of Pain	t Coating	Thickness (Microns)			
Primer	PE		5 ± 2	5 ± 2		
Base Coat	HDPE		20 ± 2			
Total			21 - 29			
Backcoat (Optional)	Epoxy-Polyest	ter	5 ± 2			
	Grey/Transparent					
PRODUCT PERFORMANCE						
Test Property		Specs	Test Results	Test Methods		
Color Matching (Solid (Colors)	$\Delta E < 1.0$	AE < 1.0	ECCA-T3		
Gloss At 60 °		Requirement	Under Tolerances	ECCA-T2		
			in EN1396			
T Bend		Requirement	0 – 1,5T	ECCA-T7		
Impact		7,5 Joule	Pass	ECCA-T5		
Cross-cut		100%	Pass	ISO 2409		
Pencil Hardness		F - HB	Pass	ECCA-T4		
MEK Resistance		100 DBR	Pass	ECCA - T11		
5% HCL Acid & 5% NaOH Alkali Test		24HRS	Pass	AAMA-620		
QUV-A Resistance		2000 Hours	Pass	ECCA-T10		
Humidity Resistance		1500 Hours	Pass	ASTM D2247		
Abrasion Resistance		< 40 mg	Pass	ISO 11998		
Salt Spray Test		1500 Hours	Pass	ECCA-T8		

POLYESTER PRE-PAINTED ALUMINIUM SPECIFICATIONS					
Paint Quality	Polyester quality paint.				
	RAL or other colour standards can be supplied.				
Pretreatment	Chrome Free Pretreatment System.				
Coating	Type Of Paint	t Coating	Thickness (Microns)		
Primer	Polyester		5 ± 2		
Base Coat	Polyester		20 ± 2		
Total		21 - 29			
Backcoat (Optional)	Epoxy-Polyest	er	5 ± 2		
	Grey/Transpar	ent			
PRODUCT PERFORMANCE					
Test Property		Specs	Test Results	Test Methods	
Color Matching (Solid Colors)		$\Delta E < 1.0$	AE < 1.0	ECCA-T3	
Gloss At 60 °		Requirement	Under Tolerances	ECCA-T2	
			in EN1396		
T Bend		Requirement	0 – 2T	ECCA-T7	
Impact		7,5 Joule	Pass	ECCA-T5	
Cross-cut		100%	Pass	ISO 2409	
Pencil Hardness		F - HB	Pass	ECCA-T4	
MEK Resistance		100 DBR	Pass	ECCA - T11	
5% HCL Acid & 5% NaOH Alkali Test		24HRS	Pass	AAMA-620	
QUV-A Resistance		500 Hours	Pass	ECCA-T10	
Humidity Resistance		1000 Hours	Pass	ASTM D2248-01a(2007)	
Abrasion Resistance		< 40 mg	Pass	ISO 11998	
Salt Spray Test		1000 Hours	Pass	ECCA-T8	

technical specifications





COMPARISON OF HDPE & PVDF			
	HDP PE	PVDF	
Gloss	All Glosses %3-%90	One Gloss (Standard) 30%	
		Gloss can be increased with	
		Lumiflon layer.	
Color	All Colors	No Bright Colors	
Price	\$/sqm: less	\$/sqm: more	
	\$/Kg: less	\$/Kg: more	
Line Speed	More	Less	
Overcoating	Possible	Not possible	
PMT (Gas)	232 °C232 °C	249 °C249 °C	
Application	5μ+20μ5μ+20μ	5μ+20μ5μ+20μ	
Aspects	All	High Gloss	
	Grained	(with 3rd layer-lumiflon)	
	Wrinkled		
	Malt		
	High Gloss		
	Pearlescent		
High Gloss	5μ+20μ5μ+20μ	3rd layer of lumiflon	
		2nd pass	
		20-30\$/Kg-250 sqm/Kg/μ	
UV Durability	RUV 4	< RUV 4	
Warranty	10-15 Years	10-30 Years	
	(Due to thickness and	(Due to thickness and	
	location)	location)	

PAINTS REFERENCES

	ECCA	EN	ASTM
Prime Coating Dry Film Thickness	T1	13523-1	ASTM D7091 - 13
Topcoat Dry Film Thickness	T1	13523-1	ASTM D7091 - 13
Specular Gloss	T2	13523-2	ASTM D 523-89
Color Differences	T3	13523-3	ASTM D2244 - 11
Pencil Hardness	T4	13523-4	ASTM D3363 - 05(2011)e2
Reverse Impact	T5	13523-5	ASTM D2794 - 93
Coating Adhesion		ISO-2409	ASTM D3359 - 09e2
Coating Flexibility	T7	13523-7	ASTM D4145-10
Abrasion Resistance		ISO 11998	ASTM D4060 - 10
5% Hcl Acid & 5% Naoh Alkali Resistance			ASTM D2248-01a(2007)
Salt Acetic Spray Resistance	T8	13523-8	ASTM B117-11
Water Immersion Resistance	T9	13523-9	ASTM D870-02
QUV - A Resistance	T10	13523-10	ASTM D4587 - 11
QUV - B Resistance	T10	13523-10	ASTM D4587 - 11
MEK Resistance	T11	13523-11	ASTM D5402 - 06
Chalking	T14	13523-14	ASTM D4214 - 07
Humidity Resistance		13523-25	ASTM D2247-11