

PVDF systems requested performance properties

Property measured	Test Method	PVDF 2 layers	PVDF 3 layers
Paint Dry Film Thickness*	ECCA T1	30±3 µm	33±3 µm
Specular gloss	ECCA T2	Solid colors: 30±5%	Solid colors: 30±5%
		Metallic Colors: 35±5%	Metallic Colors: 35±5%
Color difference top coat (within batch)	ECCA T3	Cielab D65/10° : DE < 0.5 for light colours or DE<0.7 for dark colours or by sight as described in the respective norm	Cielab D65/10° : DE < 0.5 for light colours or DE<0.7 for dark colours or by sight as described in the respective norm
Color difference top coat (from batch to batch)	ECCA T3	Cielab D65/10° : DE < 0.8 for light colours or DE<1.2 for dark colours or by sight as described in the respective norm	Cielab D65/10° : DE < 0.8 for light colours or DE<1.2 for dark colours or by sight as described in the respective norm
Pencil Hardness	ECCA T4	min F	min F
Adhesion to cracking on rapid deformation	ECCA T5	No loss of adhesion	No loss of adhesion
Reverse impact resistance measurement by 10 Nm/mm*			
Resistance to cracking on bending 180°*	ECCA T7	≤ 1T No cracks	≤ 1T No cracks
Erichsen test	ECCA T6	80% of the depth which ruptures the substrate: No paint detachment	80% of the depth which ruptures the substrate: No paint detachment
Solvent resistance MEK *	ECCA T11	> 100 D.R.	> 100 D.R.
Resistance to salt (acetic acid)	ECCA T8	Corrosion Index 3 (EN 1396)	Corrosion Index 3 (EN 1396)

*Dry film thickness is indicative and may vary depending on the colour and the warranty requirements

Property measured	Test Method	PVDF 2 layers	PVDF 3 layers
Cross-cut test	ISO 2409	No paint detachment (class 0)	No paint detachment (class 0)
Resistance to accelerated weathering of top coat after X hrs total time. Cycle is:	ECCA T10	DE ≤ 2	DE ≤ 2
4 hours UVA at 60°C		Gloss retention ≥ 80%	Gloss retention ≥ 80%
4 hours condensation at 40°C		2000 hrs	2000 hrs
Warranty duration standard environment		Up to 18 years	Up to 25 years

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