ELM PLA39

Technical Data Sheet

ELM PLA39 *Outdoor quality*

ELM PLA39 is matt thermosetting powder coating with TGIC free based on saturated polyester resin base, the corresponding hardener plus special heat, light and chalk resistant pigments. Thanks to special resin technology they have very good outdoor quality and flow.

Characteristics

- Matt surface
- TGIC free
- Very good weather and light resistance
- Excellent mechanical properties
- Good general resistance properties
- No VOC

Powder specifications

- Particle size	< 300 µm
- Average particle size	30-60 µm
- Solids	> 99%
- Density	1,3-1,8 gr/cm³
- Storage stability	min 12 months
- Storage Temperature	cool and dry at < 25° C

Applications

- Facade elements, window profiles
- Doors
- Agricultural machines
- Garden and Camping furniture
- Lights
- Bicycle frames

Product range

Surface appearance

ELEMENT Boya San. ve Tic. A.Ş.
Birlik OSB 1 Nol'lu Cad. 6. Sok. No:5 34953 Tuzla İstanbul Türkiye
Phone +90 216 593 29 80
Fax +90 216 593 29 81

ELM PLA39

Smooth matt

Colors

Mainly RAL, Pantone and NCS shades, special shades on request

Product performance

To obtain the following data, ELM PLA39 was coated as follows

Degreased steel 0,5 mm
Coating thickness 70-100 µm
Object temperature 180 °C 10 min

Test	Method	Result
Impact	ASTM D2794	> 20 kgcm
Erichsen cupping	ISO 1520	> 5 mm
Buchholz hardness	ISO 2815	> 90
Mandrel bending		< 5 mm
Cross-cut adhesion	ISO 2409	GT 0

Condensed water and salt spray test results depend on pre-treatment of metal
> 400 hrs condensed water test DIN 50017; no infiltration, no blisters for zinc fosfate steel
> 400 hrs nautral salt spray test ISO 9227; no infiltration, no blisters for zinc fosfate steel

Application instructions

The substrate to be coated must be free of dirts, oil, rust etc.
For aluminium depending on intended purpose, degreasing or chromatising
For steel metal depending on intended purpose, degreasing, Fe –phosphating or Zinc phosphating
ELM PLA39 can be applied by all commercial electrostatic systems both corona.

Curing Schedule

Object temperature	Retention time at object temperature
170 °C	15 min
180 °C	10 min
190 °C	8 min

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