

ELM HYB40

Technical Data Sheet

ELM HYB40 *Indoor quality*

ELM HYB40 is thermosetting powder coating based on polyester and epoxy resins. It is intended to be applied for functional and decorative indoor use where high chemical and heat resistance is required.

Characteristics

- Better heat resistance
- Better chemical resistance
- Excellent mechanical properties
- Excellent overall performance
- 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 24 months
- Storage Temperature cool and dry at < 25° C

Applications

- Household appliances (ovens, toasters, etc.)
- Laboratory equipment
- Radiators
- Machine parts
- Office furniture

Product range

Surface appearance

Smooth gloss, Smooth semigloss, Smooth semimatt, wrinkle and texture effect

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Colors

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

Product performance

To obtain the following data, ELM HYB40 was coated as follows

Degreased steel	0,5 mm
Coating thickness	60-80 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
> 1000 hrs nautral salt spray test ISO 9227; no infiltration, no blisters for chromated aluminium

Application instructions

The substrate to be coated must be free of dirt, 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 HYB40 can be applied by all commercial electrostatic systems both corona and tribo

Curing Schedule

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

DISCLAIMER: All the information given in this technical data sheet is the result of our experience. Application, use and processing of the products take place outside our ability to supervise and therefore exclusively applicator's responsibility. The policy of product development, this specification is subject to change without notice.