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Quality Testing & Research Laboratory

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CONTROLLED DOCUMENT

LABORATORY TEST REPORT

HIGH GLOSS INTERIOR GRADE · POWDER COATING

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Revision: **00** | Page: **1 of 1**

SAMPLE & PROCESS IDENTIFICATION

MANUFACTURER **Oracle Industries**	COATING TYPE **Epoxy Polyester (Hybrid)**
FINISH **Glossy**	SUBSTRATE **Mild Steel Panel (0.8 mm)**
PRETREATMENT **5-Stage Zinc Phosphate**	CURING SCHEDULE **180–200°C / 10–15 min (MT)**
AVERAGE FILM THICKNESS **70–80 µm**	TEST ENVIRONMENT **23±2°C, 50±5% RH**

TEST RESULTS

PROPERTY	TEST METHOD (ASTM / ISO)	RESULT	PERFORMANCE LEVEL
Gloss (60°)	ASTM D523 / ISO 2813	**88–90 GU**	**Premium High Gloss**
Coating Thickness	ASTM D7091 / ISO 2808	**75–80 µm**	**Within Spec**
Cross Hatch Adhesion	ASTM D3359 / ISO 2409	**5B / GT-0**	**Excellent Adhesion**
Mandrel Bend (5 mm)	ASTM D522	**Pass – No cracking**	**Flexible Film**
Erichsen Cupping	ISO 1520	**≥ 5 mm**	**High Deformability**
Impact Resistance	ASTM D2794 / ISO 6272	**≥ 100 kg·cm^2**	**High Impact Strength**
Scratch Resistance	ASTM D7027	**≥ 2.5 kg**	**Superior Hardness**
Pencil Hardness	ASTM D3363	**H – 2H**	**Durable Finish**
Salt Spray Resistance	ASTM B117 / ISO 9227	**500–750 hrs**	**No rust creep > 2 mm**
Humidity Resistance	ASTM D2247	**800–1000 hrs**	**No blistering**
Chemical Resistance	ASTM D1308	**Resistant to mild acids, alkali & solvents**	**Industrial Grade**
Storage Stability (25°C)	Internal Method	**12 Months (Cool & Dry)**	**Extended Shelf Life**

Overall Evaluation: Sample **CONFORMS** to High Gloss Interior Grade specification. No blistering observed; rust creep ≤ 2 mm at scribe per ASTM D1654. All measured properties meet or exceed declared performance levels. **Result: PASS.**

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