Piyawong Raya 31.Oct. 2019

Visit Report J.V. (Thailand) Co., Ltd Subject: Propose Grilamid TR for Roof Rack Base Cover 29 Oct 2019

To: ROOA

Cc: MEG, Jing Wang, HAMI, HEIP, YEMI, ZHOE, SASN, EMMA, AKIM

1 General

Customer : J.V. (Thailand) Co., Ltd

End User : Ford

Location : Chonburee, Thailand

Participants : JV : Mr.KK Lim General Manager

Mr. Monti Suwannasing Design and product engineer

Behn Meyer : Mr. Wisawat Sopakitiboon Sales Manager

EMS : Mr.Piyawong Raya

Project name : New Ford Ranger Application : Roof Rack Base Cover

Segment Code : 230

Material : Grilamid TR90 UV (Metalic)

Potential : 8 tons/year SOP : Q4/2020 Competitor : ASA painting

2 Target/Task

To propose Grilamid TR90 UV.

To show sample plate Grilamid TR grade.

3 Summary / Conclusion

- JV is looking non-painting material for Roof Rack Base Cover for new Ford Ranger.
- The approximate car volume 24,000 car/month.
- Roof Rack Cover is part to cover screw assembly portion for Roof Rack.
- The main requirement is material which can full fill weathering test 3,000 hours.
- RAYP mentioned Grilamid TR90 UV can't full fill the requirement at 3,000 hours however, JV will discuss with FORD to adjust the specification.
- JV has alternative solution with ASA + painting but difficult to find supplier to paint small part (3x3 mm).
- JV needs EMS to share current weathering test result for Grilamid TR90 UV.

RAYP request JV to send test standard for Roof Rack.

4 Back ground information / Meeting detail

- JV is manufacturer for accessories interior and exterior of FORD.
- · JV is looking for non-painting material for Roof Rack Base Cover.



Picture#1: Reference Roof Rack Base Cover portion

Molding trial details

> Subject 1

Situation

Adjustment

Conclusion

5 Discussion/Recommendation

- > JV will inform test standard requirement.
- > JV will discuss with Ford to adjust weathering test specifications.
- > EMS provides current test result.
- ➤ EMS provide plate sample Grilamid TR90 UV metallic.

6 Measures

ı	No.	Measures	Resp.	Date
	1	Provide current weathering test result Grilamid TR90 UV	RAYP	4 Nov'19
	2	Order sample Grilamid TR90 UV metallic	ROOA	16 Nov'19

7 Attachment

Best Regards,

Piyawong Raya

Application Development Engineer

Automotive, SEA