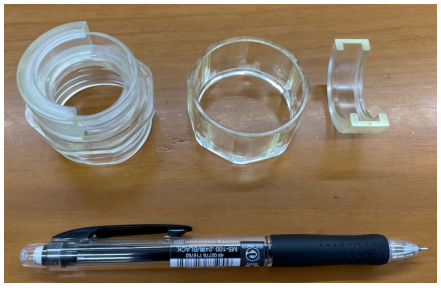
Visit Report

To : MIHI, FUJT
Cc : FNM, CAAG, GUOS, LIAW, LINR, XUEA, LAIC, GUOC, ZHAI, YATE, MORT, OZAN, ENMA, SASN, SAAM
Date of visit: 11 Jul. 2023
From : FUJT
Date of report: 25 Jul. 2023

Sankei Seisakusyo

Participants	:	Sankei Seisakusyo	Mr. Kentaro Fukumoto *(General Manager)*
			Mr. Kazuya Okada *(Injection Group)*
			Mr. Yousuke Miyake *(Group Leader)*
		EMS :	H. Mifune, T. Fujii
OEM	:	Mitsubishi Electric, Yasukawa Electric, Epson etc.	
Sales responsible	:	MIHI	
Distributor	:	Not determined	
Location	:	Kanagawa, Japan	
Application	:	Cable Joint for Industrial Robot	
Segment Code	:	430	
Project number	:	740-230130-1	
Material	:	Grivory GV-5H etc.	
USP	:	High modulus, dimensional stability, Moldability	
Potential	:	15 t/a	
SOP	:	11.2023	



1. Target of visit

Ask the molding trial result with the new tool

2. Summary

- Sankei got samples from molding trials with the new molding tool. GV-2H and TR 30 showed good roundness.
- GV-2H samples had flash and GF floating. GF floating happened because the molding tool couldn't be set more than 30 C. Sankei will modify the molding tool.
- Sankei will do sliding test with GV-2H and TR 30. The tests needs a month.

3. Details

- TR 30 and GV-2H were tried because GV-5H and FE 10571 (GV-5H LF) showed large wear by abration wear with GF. Sample of both material had better roundness than current

material (AS/10). The new molding tool has 3 submarine gates inside, so it's better for roundness than previous one (a side gate).

- GV-2H parts had flash and GF floating. The molding tool couldn't set high temperature and set 30 C because slide parts movements became bad at higher temp. So, the appearance was bad. EMS showed a plate of GV-5H to them. Sankei said that they would modify the molding tool to set higher temp. TR 30 showed good appearance and no flash.
- Sankei will do annealing for GV-2H sample at 110 C because the crystallinity might be low. After that Sankei will start sliding tests for the 2 material. The samples don't need machining. It can avoid abration wear in the first step (the test is with a grease). The test needs about 1 month.

4. Actions

No.	Action	Resp.	Due date
1	Send GV-2H specimen	FUJT	21 Jul. 2023
2	Ask the sliding test result	FUJT	31 Aug. 2023

5. Attachments

Best regards,

Takamasa Fujii