


<b>Application Development Center EMS-GRIVORY</b> <b>Answer to Technical Inquiry No.: 2014-0104</b>		
Author:	Heinz Caviezel	Date: 21.10.2014
To:	Minoru Hatta	
Company:	Nishikawa Rubber Co., Ltd	
Country:	Japan (JP)	
Material:	Grilamid TR90 UV	
Application:	side mole or weather strip	

### **Problem Description / Target of the Customer:**

In 2008, ADC tried co-extrusion between Grilamid TR90 and Santoprene PA bondable grade as attached pdf file. It was successful, as attached Power Point file, getting very beautiful extrusion sample without any flow marking and silver streak. Nishikawa Rubber would like to get the co-extrusion sample to make sure the potential to use it for door sealing or side mole. Extrusion combination must be Version 6 in Page 2 of attached pdf file. But the materials of 2 layers are;

- a) Grilamid TR90 UV with 4wt% silver PA 760517 + Santoprene 191 85 PHD 8098
- b) Grilamid TR90 UV with 4% silver 99130/05 + Santoprene 191 85 PHD 8098

The length of sample : 1m x 4 pieces

When silver PA 760517 and 99130/05 is no more available, request Mr. Hatta to supply silver TR90 compound.

### **Result / Solution / Proposal:**

We produced following tube samples with outside  $\varnothing$  24 mm:

#### **Sample 1:**

Innerlayer: Santoprene 191-85 PA12, 2 mm thickness

Outsidelayer: Grilamid TR 90 UV, silver J9956, 1.5 mm thickness

#### **Sample 2:**

Innerlayer: Santoprene 191-85 PA12, 1.8 mm thickness

Middlelayer: Grilamid TR 90 UV, silver J9956, 1.5 mm thickness

Outsidelayer: Grilamid TR 90 UV, 0.2 mm

Grilamid TR 90 UV as "silver-version" J 9956 received by Hatta-san.

"Sample 2" additional produced as a version with very smooth/shiny surface.

Each 10 pieces from sample 1&2 were sent to the attention from Hatta-san.

Best regards  
Heinz Caviezel





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# Lieferschein

## Speditionsauftrag Nr. 47771

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CH-7013 Domat/Ems, 15.10.2014

Versand per: Kurier  
Verladeort: HRL/MuLa  
Versandbemerkung: DHL  
Begründung: samples

beim Empfänger eintreffend: 24.10.2014  
Tel. Nr. +81 3 5735 0611

Pos	Menge	Netto	Bezeichnung	Gefahrgut	Warenwert	Ursprungsland	Zollposition
1	10 pieces	kg	Rohre ø ca. 24 mm, 1m; Grilamid TR/Santoprene	Nein	10.00 CHF	CH	
2	10 pieces	kg	Rohre ø ca. 24 mm, 1m; Grilamid TR; Santoprene/Grilamid TR	Nein	10.00 CHF	CH	
<b>Total:</b>		0.000 kg					

Kostenart 571000  
Kostenstelle 9129

Kommentare: