

To:

Issue date / 発行日: February 24, 2020

Process Change Notice	Hirose Electric Co., Ltd. Quality control section, Malaysia factory		
	Approval	Review	Creation
	QC ANDOH 24-Feb-20	QC FADZLI 24-Feb-20	QC ROZIE 24-Feb-20

Dear valued business partners, we truly appreciate your significant support always.
We are currently planning on the below process change for the products planned to be delivered to your company.
Forwarding shares the notification of the process change. Your approval on the change will be appreciated.

Product number of your company / 貴社品番	Product number by Hirose / 弊社品番 Please refer to the attached materials because there are many target products.	Product name by Hirose / 弊社品名 GT25 series
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Content of change / 変更内容	Type 区分	Emboss cover tape chage		
	Reason 理由	To improve the quality of embossed packaging, the embossed cover tape to be changed to TIST-100.		
		Before the change 変更前	After the change 変更後	The scope that will be affected. 影響範囲
		Please refer to the attached materials because there are many target products.	TIST-100	The change will not affect fuctional performance as it is not related to design change. Evaluation test for the changed points will be implemented.

Execution of the change plan / 変更実施計画	Schedule 日程	Jul-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
	Preparation of process 工程整備															
	Maintenance of standards, etc. 標準類の整備															
	Trial / トライ		⇒													
	Education on operators 作業者教育										⇒					
	Product evaluation test 製品評価試験											⇒				
	Submission of sample サンプル提出												⇒			
	Submission of first article inspection result 初品検査結果提出													⇒		



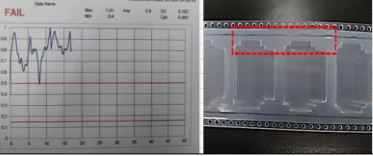
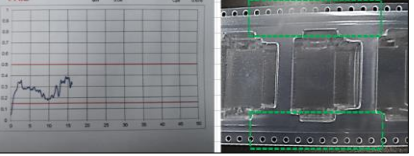

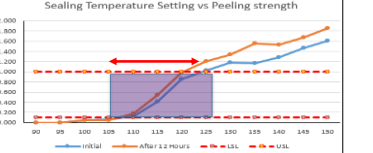
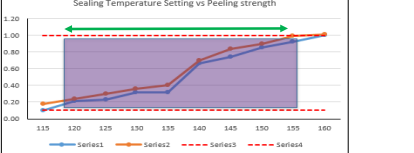
Scheduled delivery date of mass production products 量産納入予定日	Planned in September 2020	Remarks 備考
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To: Hirose Electric Co., Ltd. ヒロセ電機株式会社 行き		Your company name: 貴社名:	
Answer to the notification 回答書	Product name 製品名: Please refer to the attached materials because there are many target products.	Judgment day ご判定日	
	Content of change: 変更内容: Emboss cover tape chage	Person in charge ご担当者	
Approve or Not approve for the change: 変更可否:	Approve 承認	Not approve 否認	With condition 条件付
Required materials for submission / other directions 必要提出資料、その他指示事項			

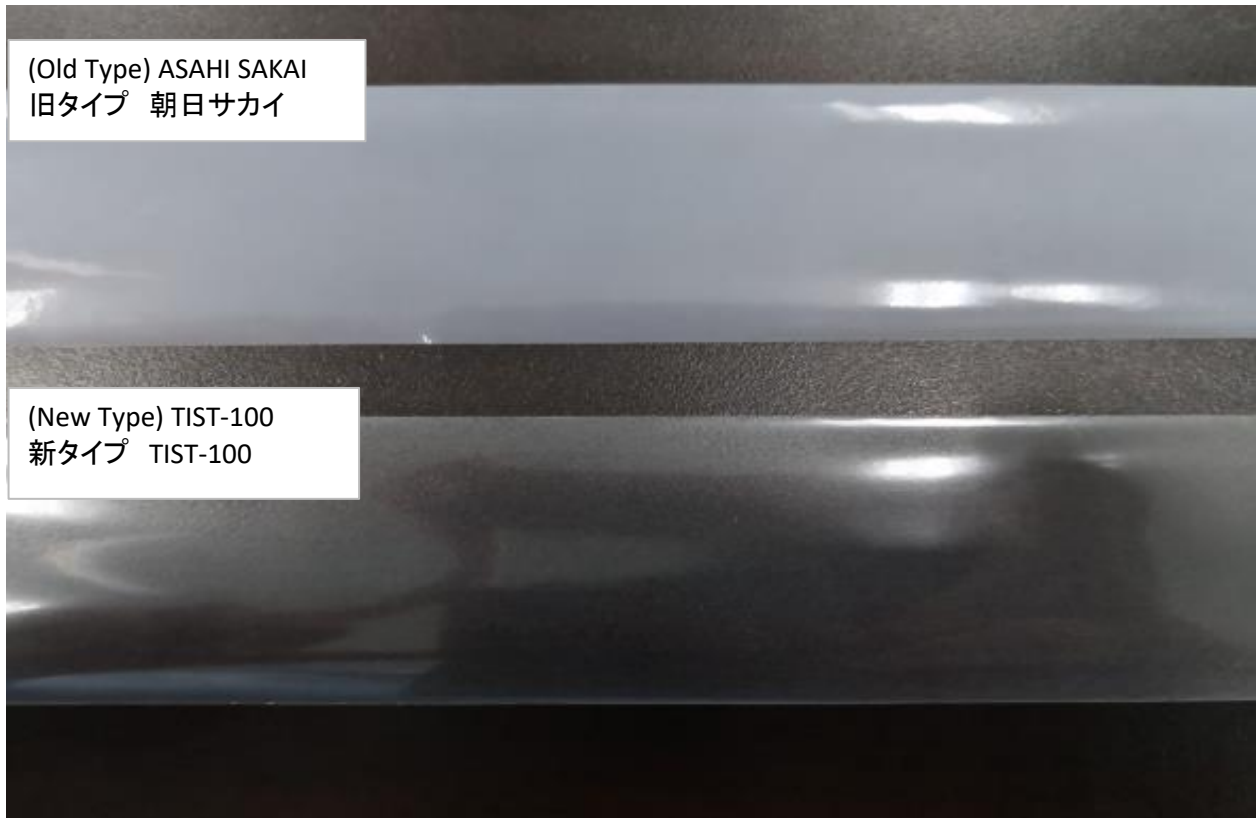
Item List

No	ITEM CODE	ITEM NAME
1	775-0004-1 00	GT25-8DP-2.2H
2	775-0004-1 32	GT25-8DP-2.2H(32)
3	775-0004-1 40	GT25-8DP-2.2H(40)
4	775-0005-4 90	GT25-12DP-2.2H(90)
5	775-0006-7 00	GT25-16DP-2.2H
6	775-0006-7 32	GT25-16DP-2.2H(32)
7	775-0008-2 00	GT25-32DP-2.2H
8	775-0008-2 23	GT25-32DP-2.2H(23)
9	775-0082-5 00	GT25-24DP-2.2H(A)
10	795-0427-0 00	GT25-8DP-2.2H(40)

TIST-100 Top Cover Tape Comparison & Changes
TIST-100 トップカバーテープの比較と変更

NO.	BEFORE(Old) 旧テープ	AFTER(New) (TIST-100) 新テープ	REMARK																																										
1			The new changes involved in term of appearance whereby the new type of cover tape namely as TIST-100 have a bit bright surface compare to the old type of cover tape.																																										
2			<p>Old 旧テープ Using old type material of cover tape, there is gives unstable reading in peeling force data and additionally it takes longer time setting technically. Based on picture above, the sealing condition is not so good and take long time to setting for balancing. 旧テープを使用すると、剥離力データの読み取りが不安定になり、設定時間も長い。また、シーリング状態はあまり良くなく、バランスを取るための設定にも時間がかかる。</p> <p>New(TIST-100) 新テープ By using new type of cover tape namely as TIS-100, shows the improvement in stability of peeling force and easy to setting for balancing.</p> <p>TIS-100のカバーテープを使用すると、剥離力の安定性が向上し、バランス調整が簡単になる。</p>																																										
3	 Cover tape start torn at sealing temperature 165 °C with peeling strength 1.96 N.	<table border="1" data-bbox="597 758 906 898"> <thead> <tr> <th rowspan="2">No.</th> <th rowspan="2">Temperature, °C</th> <th colspan="2">After 12 Hours (0.15 ~ 1.0)</th> <th rowspan="2">Status</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>150</td> <td>0.20</td> <td>0.36</td> <td>OK</td> </tr> <tr> <td>2</td> <td>160</td> <td>0.50</td> <td>0.70</td> <td>OK</td> </tr> <tr> <td>3</td> <td>170</td> <td>0.60</td> <td>0.90</td> <td>OK</td> </tr> <tr> <td>4</td> <td>180</td> <td>0.98</td> <td>1.01</td> <td>OK</td> </tr> <tr> <td>5</td> <td>190</td> <td>1.10</td> <td>1.25</td> <td>OK</td> </tr> <tr> <td>6</td> <td>200</td> <td>1.27</td> <td>1.30</td> <td>OK</td> </tr> <tr> <td>7</td> <td>210</td> <td>1.34</td> <td>1.50</td> <td>OK</td> </tr> </tbody> </table> <p data-bbox="678 888 824 905">Not allowable due to safety factor</p> <p data-bbox="914 758 1008 898" style="border: 1px solid green; padding: 2px;">Applied with high temperature zone, the tape not easily torn out even in maximum temperature. Gives stable reading on spectrum and peeling force</p>	No.	Temperature, °C	After 12 Hours (0.15 ~ 1.0)		Status	Min	Max	1	150	0.20	0.36	OK	2	160	0.50	0.70	OK	3	170	0.60	0.90	OK	4	180	0.98	1.01	OK	5	190	1.10	1.25	OK	6	200	1.27	1.30	OK	7	210	1.34	1.50	OK	TIST-100 also have a good endurance even in high temperature and its not easily torn out. TIST-100は、高温でも耐久性に優れており、簡単に破れない。
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4			From the graph shown TIST-100 material cover tape was very compatible to use whereby peeling force easy to get in wide range temperature グラフから、TIST-100材料のカバーテープは、非常に適合しているし、広範囲の温度に剥離強度を得やすい。																																										

Changing cover tape to TIST-100 カバーテープをTIST-100に変更する



The new changes involved in term of apperance whereby the new type of cover tape namely as TIST-100 have a bit bright compare to the old type of cover tape. As we plan to change all model product for GT Series, need to inform customer regarding this changes.

TIST-100のカバーテープは、旧タイプのカバーテープに比べ、少し明るい。
GTシリーズのすべてのモデル製品を変更する予定であるため、この変更についてお客様に通知する必要があります。