

Technical Report

Technical Report Force Majeur of Permanent “AM 01” Adhesive

Due to unforeseen issues with a raw material supply of one adhesive, we have qualified an alternative solution. The following products are partially (or fully) affected by this force majeure:

Product	Adhesive side (open side)	Adhesive side (covered side)
1331	Permanent side: Affected	Removable side: Not affected
1331TM	Permanent side: Affected	Removable side: Not affected
1334	Permanent side: Affected	Removable side: Not affected
1334PP	Permanent side: Affected	Removable side: Not affected
1336	Permanent side: Affected	Removable side: Not affected
1354L	Permanent side: Affected	Permanent side: Affected

The alternative adhesive that was tested shows very promising results compared the affected adhesive. The results are summarized on the second page. The new adhesive exhibits very similar or improved adhesion on tested substrates. Additionally, the adhesion is superior. We believe the new adhesive is an improvement to the one used before.

Mit freundlichen Grüßen / Best regards

i.A.

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R&D-Project #			K15/22						K15/22					
Product			1331						1331 New Adhesive					
Peel 180° FINAT 1			open side (permanent)						open side (permanent)					
		initial	MW 1	Failure mode	MW 2	Failure mode	Ø	StA	MW 1	Failure mode	MW 2	Failure mode	Ø	StA
1 min	Stainless steel	(N/25mm)	30,2	slight cohesive failure	29,7	slight cohesive failure	29,9	0,35	24,8		23,5		24,1	0,933
20 min	Stainless steel	(N/25mm)	27,4		29,1	slight cohesive failure	28,3	1,24	24,5		23,7		24,1	0,573
24 h	Stainless steel	(N/25mm)	29,0	slight cohesive failure	28,9	slight cohesive failure	29,0	0,08	25,8		26,0		25,9	0,106
Peel 180° FINAT 1			open side (permanent)						open side (permanent)					
		initial	MW 1	Failure mode	MW 2	Failure mode	Ø	StA	MW 1	FB	MW 2	Failure mode	Ø	StA
1 min	Cork	(N/25mm)	7,5	substrate tear	8,9	substrate tear	8,18	1,03	6,8		7,0	substrate tear	7	0,17
20 min	Cork	(N/25mm)	9,1	substrate tear	8,5	substrate tear	8,81	0,41	8,6		8,3	substrate tear	8	0,22
24 h	Cork	(N/25mm)	11,8	substrate tear	12,4	substrate tear	12,1	0,48	8,8		8,6	substrate tear	9	0,14
Peel 180° FINAT 1			open side (permanent)						open side (permanent)					
		initial	MW 1	Failure mode	MW 2	Failure mode	Ø	StA	MW 1	Failure mode	MW 2	Failure mode	Ø	StA
1 min	PP	(N/25mm)	3,3	zipping	3,1	zipping	3,2	0,16	15,2	zipping	13,5	zipping	14	1,20
20 min	PP	(N/25mm)	4,1	zipping	4,0	zipping	4,1	0,01	16,1	zipping	19,3		18	2,22
24 h	PP	(N/25mm)	4,7	zipping	4,5	zipping	4,6	0,13	22,3		25,1		24	1,97
Shear Performance FINAT 8														
		initial	MW 4	Failure mode	MW 5	Failure mode	Ø	StA	MW 4	Failure mode	MW 5	Failure mode	Ø	StA
70 °C	Steel	(h)	0,3	cohesive failure	0,3	cohesive failure	0,3	0,01	> 24		> 24		> 24	n.d.