1 NOFALLOY®KA832

NOFALLOY®KA832 is an innovative improver that improves a scratch resistance on the part surface molded from polypropylene, polyolefin elastomer, polystyrene elastomer, and closs—Linked Rubber, etc.

2 Examples of Actual application of NOFALLOY®KA832

NOFALLOY[®]KA832 is used for the improvement of scratch resistance for the automotive exterior materials (Bumpers, Laces) and the interior materials (Instrumental panels, Shift knobs, and Pillars), etc. Besides, NOFALLOY[®]KA832 is useful for the improvement of scratch resistance of the closs–Linked Rubber.



Fig. 1. Effects and examples of actual application NOFALLOY® KA832 as Addictives

3 Performances of NOFALLOY®KA832

The following three great performances will be obtained when NOFALLOY®KA832 is used as additives closs-Linked Rubber.

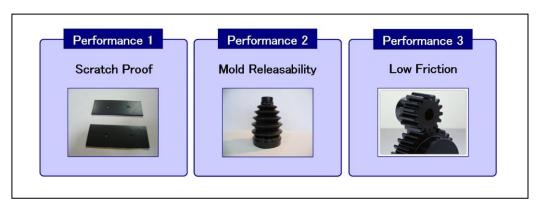


Fig. 2. Three Advantages of NOFALLOY®KA832



The Scratch proof Improvement of TPO by NOFALLOY®KA832

The Scratch proof improvement when NOFALLOY®KA832 is added to TPO is as follows.

Table 1. The Scratch proof improvement of TPO Rubber by NOFALLOY® KA832

	NOFALLOY®KA832	Five Finger Scratch Test ²⁾	Manaf Wear-Out Exam. ³⁾	Coefficient of	Hardness	
No.			The Scratch proof ⁴⁾	dynamic friction	(JIS A)	
	(wt)	N	Exelent 4~1 Poor		(0.071)	
TPO 1)	_	0.6	1	0.83	85	
Sample 1 1)	5	2	3	0.25	86	

1)TPO/NOFALLOY®KA832 = 100~95/0~5

- 2) Evaluation method of Five Finger Scratch Test—The maximum load of not made white after the test(Test Load: 0.6, 2, 3, 5, 10 N)
- 3) The Condition of Manaf Wear-Out Exam.—Vertical Load 700g × 30 times
- 4) The Point of Manaf Wear-Out Exam. -4: No Scratch Mark on Surface, 3: A few Scratch Mark on Surface, 2: A lot of scratch Mark on Surface,

1: A lot of scratch Mark on Surface with Abrasion

The Scratch proof Improvement of EPDM Rubber by NOFALLOY®KA832

The Scratch proof improvement when NOFALLOY®KA832 is added to EPDM is as follows.

Table 2. The Scratch proof improvement of EPDM Rubber by NOFALLOY® KA832

	NOFALLOY [®] KA832	Manaf Wear-Out Exam. ⁶⁾				Coefficient of	Hardness
No.		The Scratch proof 7)	Luster			dynamic friction	(JIS Sh A)
	(wt)	Excellent 4~1 Poor	Before	After	Change Rate (%)		(616 5, 4)
EPDM ⁵⁾	_	1	63	50	-20.6	1.60	63
Sample 2 ⁵⁾	2	3	59	58	-1.7	1.38	62
Sample 3 ⁵⁾	5	4	57	56	-1.8	1.07	62

5)EPDM/NOFALLOY®KA832/HAF Carbon/Stearic acid/Zinc Oxide/Dicumyl Peroxide = 100~95/0~5/40/1/5/6.75

- 6) The Condition of Manaf Wear-Out Exam. Vertical Load 700g × 30 times
- 7) The Point of Manaf Wear-Out Exam. -4: No Scratch Mark on Surface, 3: A few Scratch Mark on Surface, 2: A lot of scratch Mark on Surface,

1: A lot of scratch Mark on Surface with Abrasion



EPDM



Fig. 3. Scratch Proof Improvement of EPDM Rubber by NOFALLOY®KA832

6 Contacts

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