

Non-Metallic Material Symbols

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 **KIA MOTORS**

1. Scope of Application

This standard specifies the non-metallic material symbols for marking on the non-metallic materials and its basic indication method, which are used for drawings, specification sheets, etc.

2. Classification

The non-metallic material symbols shall be classified as shown in Table 1.

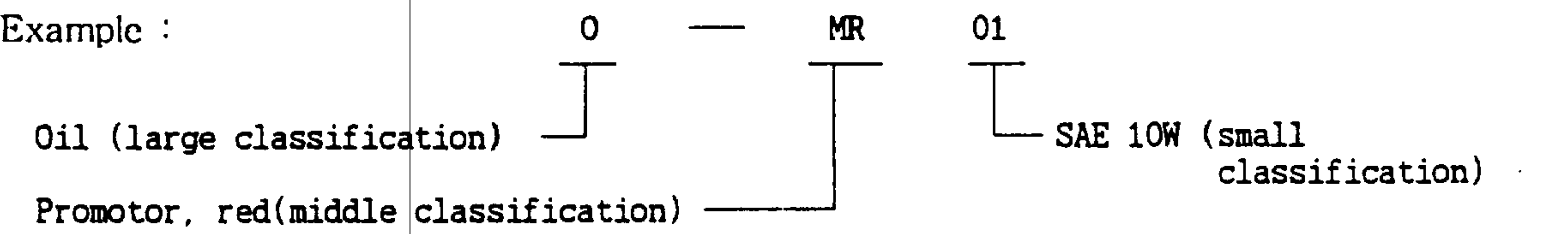
Table 1

Classification Class- ification	Content	Classification Standard	Symbol Application Method
Large classification	Main properties and use of the product material		In principle, to be indicated with the first letter of English or Roman letters.
Middle classification	Product or use, and others		In principle, to be indicated with the first 1 or 2 letters of English or Roman letters.
Small classification	Type of product (class according to properties, etc.)		In principle, to be indicated with 3 or less Arabic Figures.

Remark : In case the name of material is indicated together, A part of the symbol (large and middle class) may be abbreviated.

3. Indication Method of Symbol

The material symbol shall be indicated in the order of the large, middle and small classification, and the hyphen shall be added between large and middle classification symbol.



Remark : The material symbols of the pure parts or the maker's products, if necessary, shall be conformed to the following.

	Content	Example of Symbol Indication
	To descriminate the symbol of the pure parts by KIA from other general symbols, the Roman letter, K shall be prefixed to the front of the large classification symbol(refer to *).	* KO - MR 01 Pure parts
	Especially to indicate maker's product, the symbol or the Arabic figure shall be suffixed to the small classification symbol(refer to *).	0 - MR 01M Mobil petroleum

Attached Table 1

Non-metallic material(Large classification)

Division	Symbol	Scope of Application	Remark	Related Table
Chemical fluid	C	Brake Fluid, Anti-freezing Solution, Rust preventives, Cleaning fluid, etc.		Attached Table 2
Fiber	F	Fiber and Fiber Products		Attached Table 3
Gasket	G	Petroleum, Cork, Fiber(Material for Fiber series gasket and packing)	Excluding plastic	Attached Table 4
Foam material	H	Foam material mainly made of plastic and rubber		Attached Table 5
Wood	M	Wood, Veneer, Hard Board and Paper Products, etc.	Including cellphane	Attached Table 6
Leather	L	Natural leather, Synthetic leather, Vinyl leather, etc.		Attached Table 7
Oil	O	Fuel, Lubricating Oil, Cutting Oil, etc.		Attached Table 8
Plastic	P	Plastic	Excluding Polyurethane	Attached Table 9
Rubber	R	Natural Rubber, Synthetic Rubber	Including Polyurethane	Attached Table 10
Adhesives	A	Adhesives and Packing Material	Including exclusive solvent and others	Attached Table 11
Paint	T	Oil Paint, Varnish, Synthetic Paint, etc.	Including exclusive solvent and others	Attached Table 12
Glass	W	Glass	Including ceramic products	Attached Table 13
Others	Z			

Attached Table 2

Chemical fluid (C)

Large Classification		Middle Classification				Small Classification		Relevant Symbol
Division	Symbol	Type			Symbol	Grade	No.	
Chemical fluid	C	Brake fluid	Brake system	New Fluid	BN	DOT3	03	C-BN03
						DOT4	04	C-BN04
				Circulating fluid	BC	DOT3	03	C-BC03
				Regenerated fluid	BS	DOT3	03	C-BS03
		Anti-freezing solution	Non-Amine	For aluminium	FN	For factory	01	C-FN01
						For A/S	02	C-FN02
			Amine	For cast iron	FA	For factory	11	C-FA11
						For A/S	12	C-FA12
		Rust Preventives	Radiator rust preventives	For aluminium	RR	-	01	C-RR01
				For cast iron		-	02	C-RR02
		Cleaning fluid	Cleaning fluid for radiator	For aluminium	SR	-	01	C-SR01
						-	02	C-SR02
			Wind shield fluid	-	SW	-	01	C-SW01
		Additive fluid			TS			
		Alhome fluid	For assembly of rubber parts		AL		01	C-AL01
		Airtightness improver	Engine parts		GS		01	C-GS01

Attached Table 3

Fiber (F)

Large Classification		Middle Classification				Small Classification	Material Symbol
Division	Symbol		Type		Symbol		
Fiber	F	Knit Fabrics		Vegetable fiber cotton	CC		
				Animal fiber cotton	CW		
				Asbestos	CA		
				Glass fiber cotton	CG		
				Synthetic fiber cotton	CK		
				Blended yarn	CM		
		Felt		Hemp felt	FR		
				조모 felt	FH		
				Fabric felt	FC		
				반모 felt	FW		
				Synthetic felt	FK		
				Blended felt	FM		
				Nonwoven fabric	FF		
		Fiver		Palm rock	LP		
				Hair rock	LH		
				Synthetic rock	LK		
				Blended rock	LM		
		Silk		Vegetable fiber Series	IC		
				Animal fiber Series	IW		
				Synthetic fiber Series	IK		
				Blended yarn Series	IM		
		Rope		Vegetable fiber	RC		
				Vegetable fiber, hemp.	RR		
				Synthetic fiber	RK		
		Woven fabric		Vegetable fiber	HC		
				Synthetic fiber	HK		
		Net		Vegetable fiber	NC		
				Synthetic fiber	NK		
		Tape		Vegetable fiber	TC		
				Synthetic fiber	TK		

Attached Table 3 (continued (F))

Large Classification		Middle Classification		Small Classification						Remark				
Division	Symbol	Type		Symbol	Symbol	Type	Material and Hardness			Packing (m ²)	Weight (m ²)	Note	Symbol	
Fiber	F	Pile- planted carpets	Synth- etic pile	UK	01	Cut type	Length of pile 13/32in (10.31mm)	Pileseries Nylon 100x 15 denier Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 7.5/in			P-PE 36"×44" 11 ounce (306g/m ²)	36"×44" 33 ounce (917g/m ²)	Buy American	F-UK01
					02		Length of pile 5/16in (7.94mm)	Pileseries Nylon 100x 15 denier Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 23/10			P-PE 36"×44" 11 ounce (306g/m ²)	36"×44" 28 ounce (778g/m ²)	Buy American	F-UK02
					03		Length of pile 10mm	Pileseries Nylon 100x(Sponge nylon 1/3.5) Foaming Jute or Nylon 100x Density Gage 5/32 Stitch 23/10			P-PE 300g	1100g	X310	F-UK03
					04	Rope type	Length of pile(mm) 7.5 or more	Pileseries Nylon 100x(Sponge nylon 1/3.5) Foaming Jute or Nylon 100x Density Gage 5/32 Stitch 30/10			P-PE Jute 300 Nylon 350	990 or more (g/m ²) 1130or more	Home made K102	F-UK04
					05		Length of pile (mm) 14 or more	Pileseries Nylon 100x (1/3.5) Foaming Jute 100x Density Gage 5/32 Stitch 25/10			P-PE 400g/m ²	(g/m ²)		F-UK05
					21		Length of pile 4mm	Pileseries Rayon 100x 1/2S Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 23/10			400g	1000g	X808	F-UK21
					22	Length of pile 7mm	Pileseries Nylon 20x Rayon 80x 1/2.2 Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 27/10			400g	1200g	X908 (High grade)	F-UK22	
					23	Length of pile 5.5mm	Pileseries Nylon 100x (1400D filament) Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 23/10			300g	800g	X311 X410 X409	F-UK23	
					24	Length of pile 7mm	Pileseries Nylon 100x (1400d filament) Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 29/10			350g	950g	X409 (High grade)	F-UK24	

Attached Table 3 (continued (F))

Large Classification		Middle Classification		Small Classification						Remark		
Division	Symbol	Type		Symbol	Symbol	Type	Material and Hardness		Packing (m ²)	Weight (m ²)	Note	Symbol
Fiber	F	Pile-planted carpet	Synth-etic pile	UK	25	Rope type	Length of pile 6mm	Pileseries Poly propylene 100x Foaming Jute 100x 9 ounce/1 yard Density Gage 5/32 Stitch 23/10	350g	870 or more (g/m ²)	X508 (S.C) 1.9 car-pet	F-UK25
					26		Length of pile (mm) 140 or more	Pileseries Nylon 100x Foaming Easter 70x Nylon 30x Density Gage 5/32 Stitch 23/16	500g	940 or more (g/m ²)		F-UK26
					27		Length of pile (mm) 6.0	Pileseries Poly propylene 100x Foaming Density Gage 5/32 Stitch 23/10	450g	970		F-UK27
					28							
					29							
		Blended pile	UM									
			Felt carpet	Synth-etic	MK							

Attached Table 3 (continued (F))

Large Classification		Middle Classification		Small Classification								Remark		
Division	Symbol	Type		Symbol	Sym-bol	Type	Material and Hardness				Packing (m ²)	Weight (m ²)	Note	Symbol
					01	(Pun-ch) Felt type Total thickness 3.5mm	Web Cross	Nylon 50x Rayon 50x PP film	15 denier 315g/m ² 85g/m ²	Rubber 300g	750g	Console seat glove seat	F-MM01	
Fiber	F	Felt carpet	Blend	MM	02					P-PE				
					03	Felt (Ara-kne)	Total thickness 1.5mm	Web Simesa	Nylon 40x Rayon 60x Nylon	15 denier 300g/m ² 11 denier 30g/m ²	P-PE 250g/m ²	500g	Arakne	F-MM03
					04	Felt (Ara-kne)	Total thickness 3.0mm	Web Simesa	Arcy 30x Rayon 70x Nylon	15 denier 225g/m ² 11 denier 25g/m ²	Rubber 330g/m ²	580g	Arakne (Boxer mat)	F-MM04
					05	Felt	Total thickness 3.0mm	Material Foaming	Poly propylene 300g/m ² Polyester500D (Vertical 20, Horizontal 20/10cm)		Rubber 310g/m ²	610g	(Trunk mat)	F-MM05
					06	Felt	Total thickness 3.5mm	Material Foaming	Poly propylene 270g/m ² Poly propylene 90g/m ²		Rubber 200g/m ²	560g	Trunk mat of car	F-MM06
					07	Felt (Ara-kne)	Total thickness 4.5mm	Material	Poly propylene 500g/m ²		SRB Latex 400gm ²	900g	Porter floor mat	F-MM07
					08		Total thickness 3mm	Material	Poly propylene 90x 450g or more (ES fiber 10x)		P-PE Latex 300g/m ²	750g (For shaping)	Floor mat (Domes- tic)	F-MM08
					09		Total thickness 1mm	Material	Rayon 3D 60x Polyestetron 6D 40x			100g		F-MM09