

KOLON HIKOREZ® Upgraded R-1100S Hydrocarbon Resin is the aliphatic hydrocarbon resin that has been specially designed for hot-melt road marking compounds.

HIKOREZ® Upgraded R-1100S has high molecular weight, so it can contribute to enhance fluidity of hot-melt road marking due to good compatibility with various fillers.

HIKOREZ® Upgraded R-1100S has good color property, so it can contribute to enhance whiteness of hot-melt road marking.

HIKOREZ® Upgraded R-1100S will merge current R-1100S & R-1100.

Table 1. Specification and Typical Properties

	Upgraded R-1100S (JE-0407)		R-1100S	R-1100	비고
	Spec.	Value	Value	Value	
Softening Point, °C	94~102	100	100	100	ASTM E-28
Color, Ga#	Max.8	4.5	5	5	ASTM D-1544
Acid, KOHmg/g	2.00~3.50	2.3	2.3	2.3	ASTM D-974
Melt Viscosity, cps	-	240	180	130	ASTM D-3236
Heat Stability, Ga.#	Max.8	5	5.5	5.5	200°C, 5hrs

Table.2 Road Marking Performance

Formulation		Test-1	Test-2	Test-3
Hydrocarbon Resin	Upgraded R-1100S	14	-	-
	R-1100S	-	14	-
	R-1100	-	-	14
PE Wax		1	1	1
Alkyd-251 (Arakawa)		2	2	2
Glass Bead		16	16	16
CaCO ₃		63	63	63
TiO ₂		4	4	4
Performance		Test-1	Test-2	Test-3
S.P(°C, Ring&Ball)		119	118	118
Compressive Strength(Kgf/cm ²)		285	253	275
Whiteness		90	89	88
Wear Resistance (mg/100cy.)		12	10	20
Fluidity (Sec.,Zahn Cup No.7)		64	70	73

In the aspect of Initial color property of hydrocarbon resin KOLON Upgraded R-1100S has better property than current R-1100S & R-1100

In the aspect of Whiteness and Fluidity of HMRM KOLON Upgraded R-1100S has better properties than current R-1100S & R-1100.

KOLON Upgraded R-1100S has similar properties with current R-1100S & R-1100 in the aspect of compressive strength, softening point, wear resistance, and so on.