

HIRENOL KPA-1350

Product Type & Uses

Hirenol KPA-1350 is an oil soluble, non-heat reactive alkyl phenolic resin that imparts exceptional initial tack and excellent tack retention to rubber compound. When used in mixtures of NR and synthetic rubbers, it improves the resistance to aging at elevated temperature and under dynamic loading, and the extrusion properties

It is used as tackifying resin for building tack in tire carcass stocks using NR/SBR, NR/SBR/BR blends, conveyor belts, and hoses for industrial purposes.

* Rate of Use : Generally 2 ~ 10 parts per 100 parts of rubber.

Properties

Item	Specifications	Remarks
Appearance	Light Brownish Pastille	
Softening Point	108 ~ 116 °C	Ball & Ring method (5 °C/min.)
Specific Gravity	1.00 ~ 1.06	25 °C
Acid Value	60 ~ 90	KOH mg/g
Ashes	0.1 % max.	800 °C * 1hr
Color	4 max.	Gardner Scale, 50% solution in Toluene

Guide Formulations

◆ Compounding Formula

	KPA-1350	Blank
Budene 1207	40.00	40.00
SMR 5	30.00	30.00
SBR 1713	45.00	45.00
N 660	50.00	50.00
ZnO	3.00	3.00
Stearic Acid	1.00	1.00
Flectol H	1.00	1.00
KPA-1350	3.00	-
Insoluble Sulfur	3.33	3.33
TBBS	1.00	1.00

◆ Test Results

		KPA-1350	Blank
Mooney at 100 °C ML ₍₁₊₄₎		68.50	74.90
Scorch Test (125 °C)	t ₂	2.90	3.70
	t ₅₀	7.00	8.20
	t ₉₀	9.80	10.40
Hardness Shore A		56.00	57.00
Tensile Strength (Kg/cm ²)		167.00	162.00
300% Modulus (Kg/cm ²)		90.00	87.00
Tack	2 hr	4.44	3.20
	1 days	4.65	3.57
	3 days	3.24	2.68

※ Please note the actual result shall be obtained by individual users with their own compound in the factory, as the result measured in laboratory method can vary very much.

※ The mixing procedure and measuring methods are available upon request.

Packing

The standard package for KPA-1350 is a multiwall paper bag containing 25Kg net of resin.

Storage

In a cool place away from moisture, KPA-1350 is usable for more than one year

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