KEPA 1150

KEPA 1150 / Features

KEPA 1150 is a special polymer rubber of the polyolefin elastomer, consisted mainly with single molecular chain structure, grafted with maleic anhydride. It is superior in the resist ances against heat, ozone, and weather, also shows excellent flow property blend with Nylon and characteristic of the impact strength in low temperature as it is constituted with amorphous rubber.

Physical properties	Value	Test method
Flow Rate(2.16kg/230℃)	2	ASTM D 1238
Specific Gravity(g/㎤)	0.88	ASTM D 3575
Glass Transition Temperature(℃)	-50℃	DSC
Volatile Component(%)	0.10	ASTM D 1416
Hue(yellowness)	11	AM S 77-017

※Above data is representative data of KEPA, which does not mean the standard specification.

- Excellent impact strength (Notched Sample)
- Maintain the low temperature characteristic at -40℃ or below
- Improve the compatibility when mixing with engineering plastics
- Maintain excellent flexibility/elasticity
- Minimize the hygroscopicity to shorten drying time
- Outstanding in sustaining the flexural modulus of the final products

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KEPA 1150 / Technical Data

Impact strength nylon 6,6 / KEPA 1150 (80/20) Blend

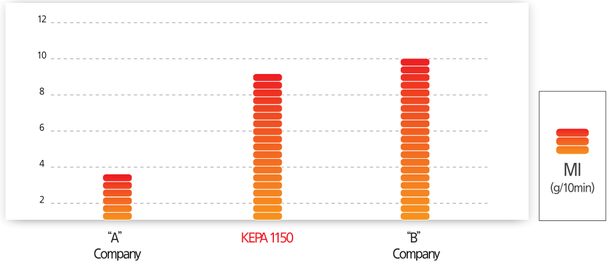
	IZOD			MI(g/10min)
	23℃	-20℃	-30℃	
"A" Company	NB	44	36	3
"B" Company	NB	NB	36	10
KEPA 1150	NB	NB	57	9

※ Izod tester hammer capacity : 2.75J

KEPA 1150 / Flow Rate

KEPA 1150 exerts superior flow rate, even it is constituted with amorphous EP(D)M rubber, so as to show excellent processability and workability.

PA 6,6 / Mah modificated EP(D)M of MFR(Melt Flow Rate)



Solution Partner
Creating Our Common Future
With Value Beyond Chemistry

KEPA Series

Maleic anhydride functionalized
elastomer ethylene-propylene copolymer

KUMHO POLYCHEM

KEPA Series

KEPA 1150 / Major Applications

Impact Modifier	KEPA is used for the impact modifier not only in room temperature but also in low temperature. It keeps the superior impact strength in low temperature for polar polymer, such as nylon, as well as for polyolefin.
Coupling Agent	KEPA is acting as a coupling and adhesion agent by increasing the adhesion and improving the compatibility of polyolefin materials. It also can improve the compatibility of polar/nonpolar polymers and other fillers so as to reduce the cost and to exert out standing characteristics in mechanical properties and thermal stability.
Raise the adhesion/ stickiness of polar materials	KEPA improves the compatibility and adhesion of polyolefin, nonpolar material, with polar materials, such as nylon, polycarbonate, polyurethane, etc., to gain the improving effect of mechanical properties.

KEPA Series / Storage and How to Use

KEPA is produced in pellet form and packed in an anti-moisture bag by 20kg for the worker's convenience, which can be put into the internal mixer (extruder) as it is without requiring any other additional process.

KEPA 1130

KEPA 1130 / Features

KEPA 1130 is a special polymer rubber of the ethylene-propylene EP(D)M, consisted mainly with single molecular chain structure, grafted with maleic anhydride. It is superior in the resistances against heat, ozone, and weather, also shows excellent characteristic of the impact strength in low temperature as it is constituted with amorphous rubber.

Physical properties	Value	Test method
Flow Rate(2.16kg/230℃)	3	ASTM D 1238
Specific Gravity(g/㎤)	0.88	ASTM D 3575
Glass Transition Temperature(℃)	-46℃	DSC
Volatile Component(%)	0.10	ASTM D 1416
Hue(yellowness)	14	AM S 77-017

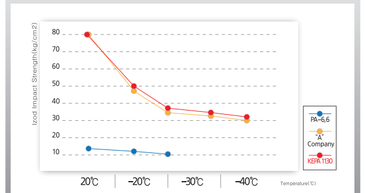
※Above data is representative data of KEPA, which does not mean the standard specification.

- Excellent impact strength (Notched Sample)
- Maintain the low temperature characteristic at -40℃ or below
- Improve the compatibility when mixing with engineering plastics
- Maintain excellent flexibility/elasticity
- Minimize the hygroscopicity to shorten drying time
- Outstanding in sustaining the flexural modulus of the final products

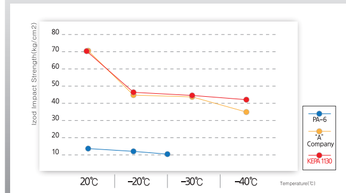
KEPA 1130 / Low Temperature Characteristic

KEPA 1130 is a product to reinforce the impact strength of conventional nylon, which has been produced by denaturalizing the amorphous EPDM rubber in order to provide excellent characteristics particularly in low temperature (-40oC~ -50oC).

Impact strength nylon 6 / KEPA 1130 (80/20) Blend



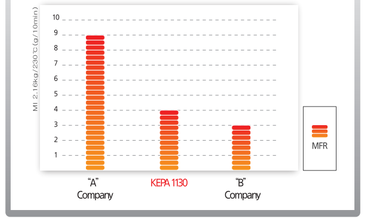
Impact strength nylon 6,6 / KEPA 1130 (80/20) Blend



KEPA 1130 / Flow Rate

KEPA 1130 exerts superior flow rate, even it is constituted with amorphous EP(D)M rubber, so as to show excellent processability and workability.

Mah modificated EP(D)M of MFR(Melt Flow Rate)



PA6/ Mah modificated EP(D)M Blend MFR(Melt Flow Index)