



HANKOOK
driving emotion

KINERGY^{EX}

The Harmony of Excellent Performance and Stylish European Design



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Concept



Kinergy Technology

Kinergy EX's advanced technology and refined design maximize utility and practicality. It is the combination of technology and design that offers drivers impressive vehicle fuel efficiency and outstanding performance .

Emotional Driving

- Silence & Comfort Driving
- Safe & Joyful Driving
- Eco-friendly Driving

Design Concept

*'European Style for
Best Performance'*



Pattern Design

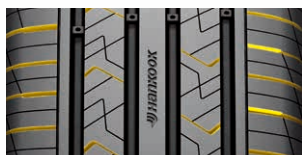


Design Feature

Silence

Shoulder Groove Width Design

- Optimized shoulder groove design helps to prevent unwanted road noise while driving.
- Groove width variation improves water drainage and maximizes wet condition performance.



Pitch Design

- An optimal 5 pitch tread design reduces noise.

VNT (Visual Noise Technology)

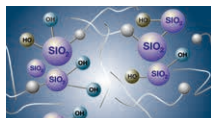
- Visual simulation analysis technology



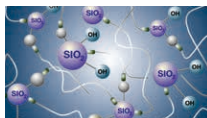
Eco-friendly

New Silica Compound Application

- Rolling Resistance is lowered through use of an advanced silica tread compound for improved vehicle fuel efficiency.



Conventional



Hybrid Compound

Comfort

Optimal Sipe Design Technology

- Advanced tread block and sipe designs are incorporated for improved traction and comfort.



Vibration & Noise Technology

- Unwanted noise and vibration are reduced by optimizing the tire's contact with the road surface.

Safe & Joyful

VAI System

- A Visual Alignment Indicator System allows drivers to check vehicle alignment by comparing tire's interior and exterior wear condition easily.

Optimal 4-Grooves

- An optimal 4 Groove design improves wet condition braking and traction performance.

Wide Tread Width

- Wide tread width design maximizes handling and braking ability.



Silence



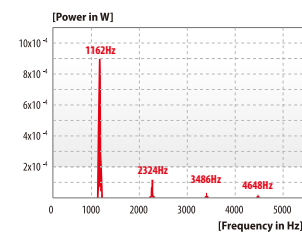
5 Pitch Design

Diverse block size and dispersed vibration/noise frequency help to reduce unwanted road noise and offer a quiet driving experience.

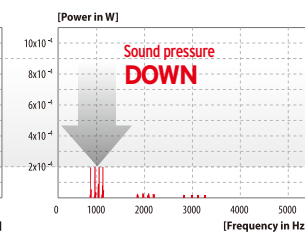
5 Pitch Design



Sound pressure with 1 pitch application



Sound pressure with 5 pitch application



VNT(Visual Noise Technology)

New simulation analysis allows visualization of noise during the design process in order to develop a tire that offers lower road noise levels.

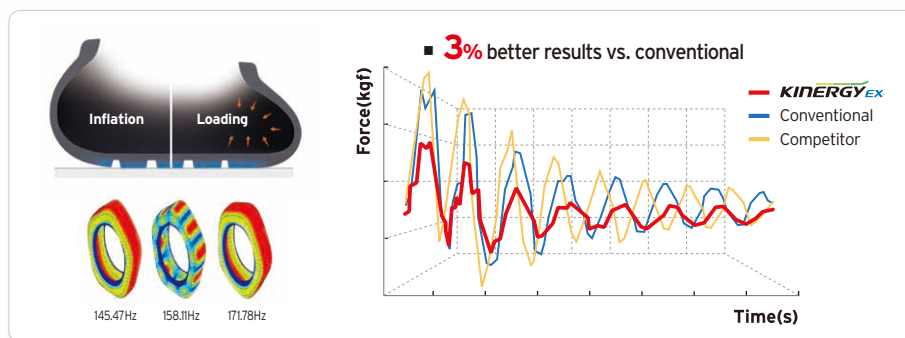


- Kinergy EX vehicle noise test shows **7%** better result. (vs. conventional)

Comfort

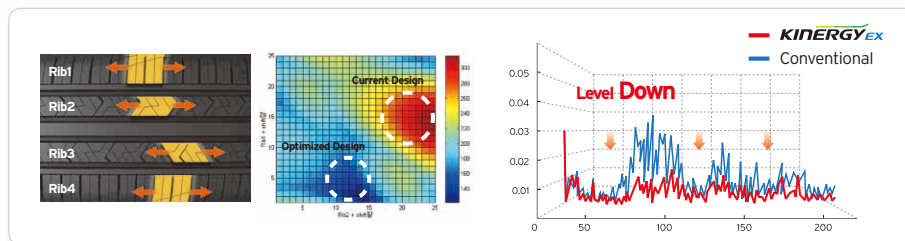
3D vibration analysis & pattern stiffness applied

Designed to absorb and reduce impact shock when driving on rough road surfaces to provide a smooth, composed ride.



Optimal Block Position

Vehicle ride is improved by use of tread block shift simulation during the design process to reduce vibration.



Safe & Joyful

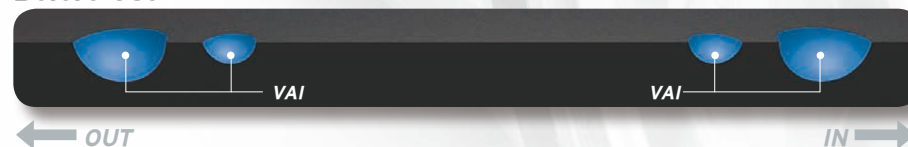
VAI (Visual Alignment Indicator) System

VAI

VAI System allows drivers to easily check a vehicle's alignment by visually inspecting two round indicators on the tire's interior and exterior shoulders to help reduce uneven wear.



Before Use



After Use (Regular Wear)



After Use (Irregular Wear)

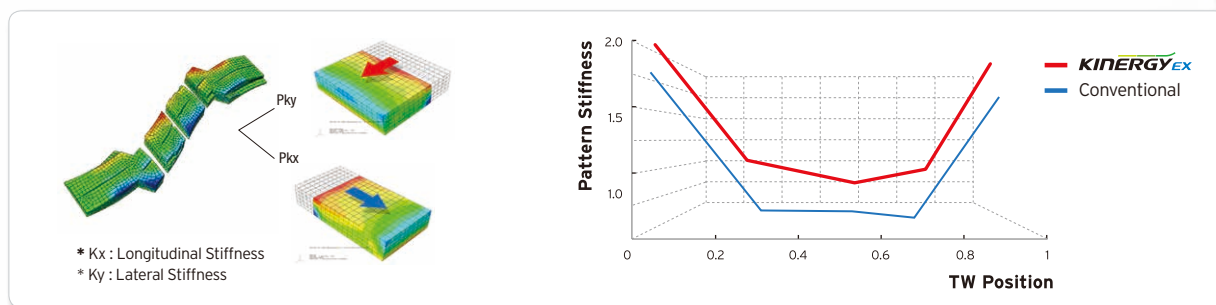


➔ Different depth of Indicator marks show tire wear status.

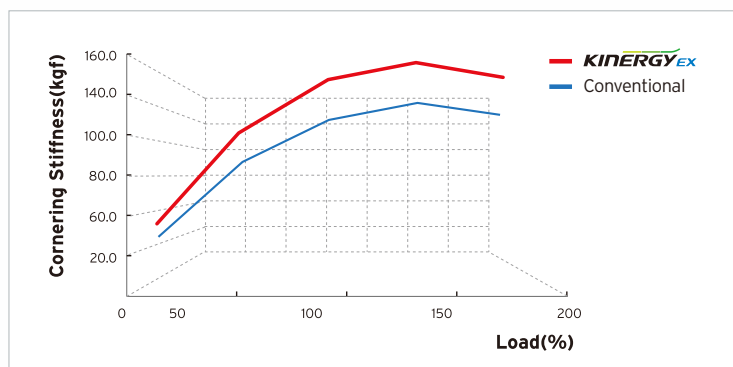
Safe & Joyful

The tire that drives as drivers want

The Kinergy EX is designed to optimize cornering force to provide drivers with quick and responsive handling.



Cornering Force Test Result



Cornering Stiffness



Eco-friendly

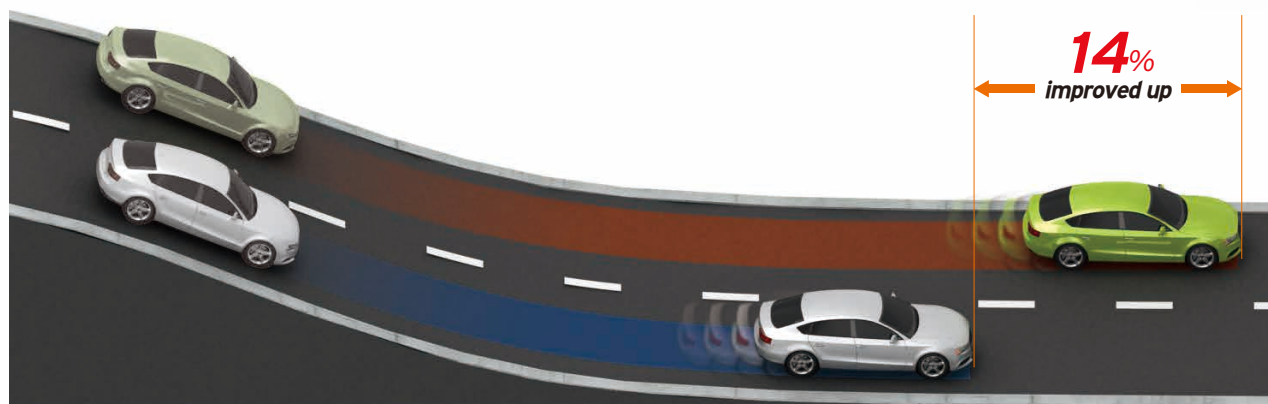
Silica
COMPOUND

Shorter Stopping Distance on Wet Condition



Size : 205/55R16
Speed : 100kph → 0 kph
Depth of water : 1mm

Low Rolling Resistance



KINERGY EX

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Construction

Structure Design Technology

High Dispersion Silica Tread Compound

High dispersion silica compound provide excellent ride, noise performances & lower rolling resistance.

Wide 2 Steel Belt

Wide 2 Steel Belt provides optimized foot shape & improved handling performance.

Super High Turn Up Carcass

Sidewall reinforced by super high turn up carcass line. Enhanced sidewall provides superior protection abilities form the impact damages.

High-Hardness Bead Filler

Ensures enhanced handling and steering response.

Strong Single Strand Bead Wire

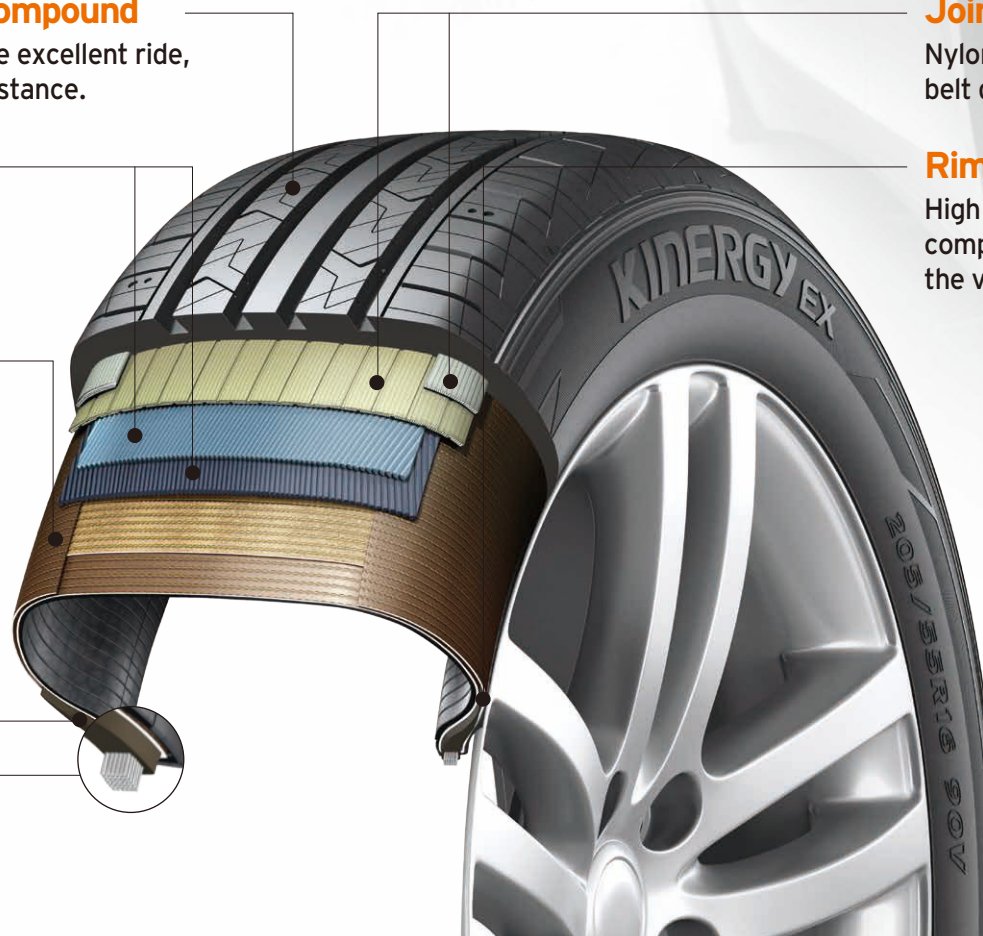
Strong bead wire provides improved uniformity and durability.

Jointless Reinforcement Belt

Nylon jointless full & edge cover improve belt durability.

Rim Protect Bar

High stiffness protector shape compound protect the rim surface from the various impacts.



Test Result

