Koresin - a High Performance Tackifier

The Chemical Company
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Applications

Koresin is recommended for the production of rubber compounds which require a high degree of tackiness. It is therefore ideally suited to manufacturing the following products:

- all kinds of tires
- materials for re-treading
- conveyor belts, V-belts
- industrial hoses
- cable and roll coverings
- lining materials

Outstanding Advantages

Koresin gives tire manufacturers in particular a range of advantages, as follows:

- high and long-term tackiness of rubber compounds made from natural or synthetic rubbers
- no effect on rubber vulcanization process
- physical characteristics of the vulcanized rubber remain nearly unchanged
- improved rubber extrudability
- improved resistance of rubber goods to ageing caused by exposure to heat and dynamic load
- better dispersion of carbon black
- process reliability
- unparalleled performance

Optimum Tackiness Performance

BASF's customers appreciate Koresin as it improves workability, offering optimum tackiness behavior and outstanding long-term tackiness. Koresin prevents the vulcanization process from starting prematurely and thus improves process reliability: The compounds can be transported or stored for some time.

Technical Information

KORESIN

Specification

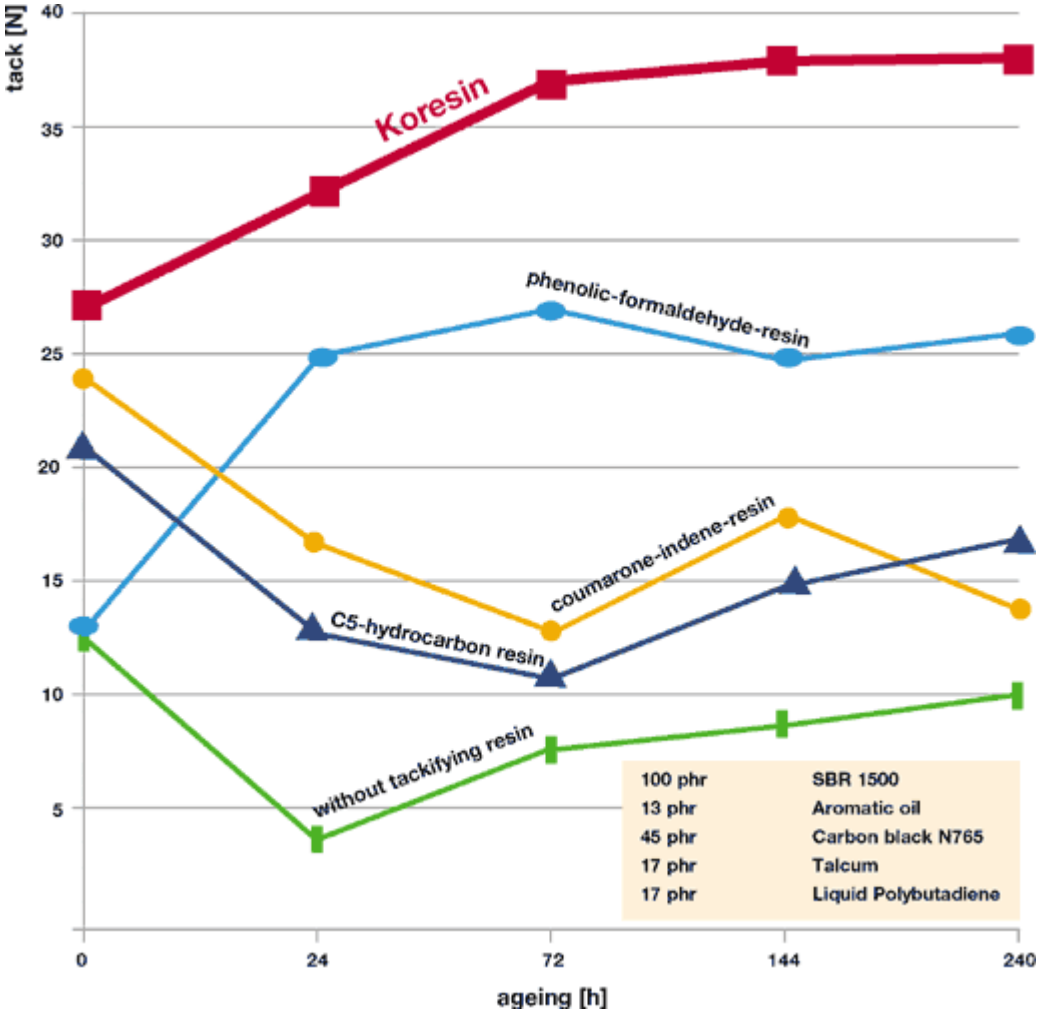
Test Criteria	Specification	Test Method
Ubbelohde dropping point	140 – 160 °C	DIN 51801
Ring and ball softening point	135 – 150 °C	DIN 52011
Solubility in hydrocarbons	soluble	BASF method

Properties

Physical form	yellow to brown pellets & powder
Odor	almost odorless
Softening point (ball and ring/DIN 52011)	135 – 150 °C
Dropping point (Ubbelohde/DIN 51801)	140 – 160 °C
Density (20 °C)	1.02 – 1.04 g/cm3
Solubility	soluble in hydrocarbons
Storage stability	2 years

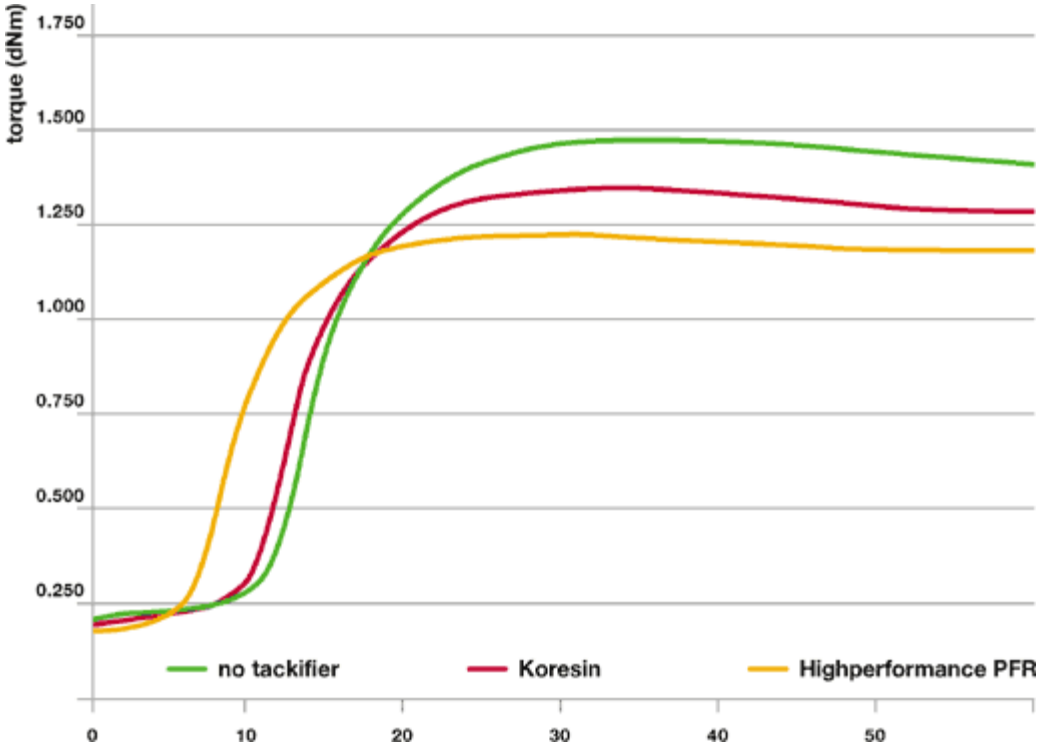
Trust in Superior Tackiness

The tackiness curves of various tackifiers identify Koresin as the superior short- and long-term tackifier. Similar results have been observed e.g. for steel cord (100% NR) and side wall compounds (NR:BR:EPDM 35:35:30). Koresin customers round the world have for years confirmed the superior tackiness performance in all kinds of tires and rubber articles.



Influence on Vulcanization

Another major advantage of Koresin compared to other tackifiers: Koresin has hardly any impact on the vulcanization behavior of the rubber mixes. In particular, the essential scorch time remains virtually unaffected if you add Koresin. Users therefore enjoy improved process reliability. The positive cure behavior of Koresin can be verified at various dosages of Koresin and in different polymer systems.



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