

PT SIDDHARTA MANDIRI INDONESIA

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SL-2201

NOVOLAC REINFORCING RESIN

DESCRIPTION **SL-2201** is a thermoplastic cashew nut shell oil (CNSL) modified phenol-formaldehyde novolac resin.

CHARACTERISTICS

Property	Specification	Test Method
Appearance	brown pastille	visual
Softening Points, Ring & Ball, °C	80 - 100	WI-QC-102
Weight Loss, 65 °C, %	0.5max	WI-QC-104
Ashes, 550±25°C, %	0.5max	WI-QC-103

PROPERTIES

- 1) **SL-2201** is a thermoplastic resin and exhibits good solubility in BR, SBR, CR and NBR rubbers. During the vulcanization of rubber compounds, **SL-2201** is function as a softening agent, plasticizer and an adhesion promoter. The cross-linking reaction of **SL-2201** with a methylene donor produces rubber compounds with superior reinforcement and hardness properties.
- 2) In addition to enhanced hardness, **SL-2201** resin significantly improves the abrasion resistance, tear resistance, tensile strength and modulus properties of rubber compounds. The elongation of cured rubber is decreased only slightly.
- 3) **SL-2201** can also function as an adhesion promoter. Therefore, this resin used in the manufacture of various reinforced rubber articles.
- 4) With **SL-2201** resin, the Mooney viscosity of rubber compound could be reduced, which in turn could improve the filler dispersions of various rubbers.

APPLICATIONS

- 1) **SL-2201** is mainly used in bead area of tires, rubber soles and car window sealing strips.
- 2) It is suggested that **SL-2201** can be used at about 5~15 phr levels. At the same time, 7~10%(wt%) hexamethylenetetramine(HMT) or hexamethoxymethylmelamine (HMMM) as methylene donor should be added.
- 3) In order to avoid the scorching problem of rubber compounds, **SL-2201** resin should be added during the first mixing stage. The methylene donor should be added with an accelerator and sulfur at the final mixing stage.

PACKAGING 25kg (net weight), kraft bag inner PE coated or PE bag.

STORAGE This material can be stable for 9 months under the normal storage conditions. However, precautions must be taken to avoid exposure to sunlight and always, store this material in a sealed container under the dry and cool conditions

OCCUPATIONAL SAFETY AND HEALTH INFORMATION

Consult the Material Safety Data Sheet prior to using this resin.