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RESINS & TACKIFIERS
-PHENOLIC-

SP-6700 RESIN
(formerly P-86)
-PHENOLIC NOVOLAK RESIN-

PRODUCT DESCRIPTION:

SP-6700 is a cashew nut oil modified phenol-formaldehyde resin. It does not contain hexa and is the base resin that is used in the manufacture of SP-6600.

PHYSICAL PROPERTIES:

Physical Form	Flake
Specific Gravity	1.16
Softening Point, Ball & Ring, (°C).....	90 - 100

SOLUBILITY:

SP-6700 is soluble in alcohols, ketones and esters

GENERAL RECOMMENDATIONS:

Compatible in all proportions in nitrile rubber. Modification of the phenolic resin with a cashew nut oil improves NBR compatibility and dispersibility. Recommended for use where scorching or pre-curing is encountered with resins containing hexamethylenetetramine. The use of SP-6700 allows full advantage to be taken of its plasticizing action during processing without fear of pre-curing. The hexa can then be added late in the mixing cycle or on the warm-up mill to make the resin thermosetting upon application of heat in the cure. The hexa used should be a finely ground rubber accelerator grade or a pre-dispersion.

SP-6700 with hexa added will harden compounds and improve their tear strength, stiffness, and abrasion resistance. Improvement in rubber-to-metal bonds as well as fabric adhesion is also found. A precipitated silica at 10 phr or more will work synergistically with the resin to improve adhesion further.

STORAGE:

For best results, SP-6700 should be stored where temperatures do not exceed 86°F for extended periods of time. As with all phenolic resins, SP-6700 will become darker with age.

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