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RESINS & TACKIFIERS
-PHENOLIC-

SP-6600 RESIN
(formerly P-87)

-THERMOSETTING TWO-STEP PHENOLIC RESIN-

PRODUCT DESCRIPTION:

SP-6600 resin is a cashew nut oil modified phenol-formaldehyde two-step phenolic resin. It exhibits excellent compatibility in all proportions with NBR.

TYPICAL PROPERTIES:

Specific Gravity	1.17
Physical Form	Powder
Sieve Analysis (thru 100 mesh).....	98 – 100%
Melting Point, Capillary (°F).....	140 - 165
Hot Plate Cure at 160°C (sec.).....	20 - 50
Inclined Plate Flow at 125°C (mm).....	30 - 70
Hexa Content (%)	6.5 – 8.5

SOLUBILITY:

SP-6600 is soluble in alcohols, ketones and esters

GENERAL RECOMMENDATIONS:

Because of its unlimited compatibility, SP-6600 is used extensively for modifying the properties of nitrile rubber compounds and solvent cements. During processing, the resin plasticizes the stock, making filler loading and further processing easier. In the cured state, increasing amounts of resin will decrease elongation but will increase tensile strength, flexural strength, hardness, abrasion resistance and rigidity. SP-6600 will also improve rubber bonding to metal as well as adhesion to fabrics. 5-10 phr will help most bonding situations (adding precipitated silica at 10 phr or more will work synergistically with the SP-6600 to help adhesion). SP-6600 has limited compatibility with SBR and CR. However, within these compatibility limits, it is used to reinforce these rubbers.

STORAGE:

For best results, SP-6600 should be stored where temperatures do not exceed 86°F for extended periods of time. As with all phenolic resins, SP-6600 will become darker with age.

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