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RESINS & TACKIFIERS
-PHENOLIC-

P-101 RESIN

PRODUCT DESCRIPTION:

P-101 is a heat reactive, phenolic resin used in the resin curing of butyl rubbers*, adhesive systems and sealants. A halogen donating activator (typically 5 phr of mercaptan-modified polychloroprene is used in butyl polymers) should be added for best results. Halogenated butyls do not require a halogen donor as activator.

TYPICAL PROPERTIES:

Form.....	Flake
Melting Point (Cap. Tube)°C.....	63 (145°F)
Specific Gravity	1.05
Methylol Content	8% - 11%
Packaging.....	55 pound net weight PE bags

SOLUBILITY:

P-101 has excellent compatibility with chloroprene, nitrile and natural rubbers, therefore, can be compounded with them for use in cement applications. P-101 is an excellent contact cement with long open time and good dry tack properties can be made with P-101 in combination with chloroprene rubber. Butyl rubber sealants can also be made utilizing this resin obtaining cured coatings with good chemical, abrasion and heat resistance.

Used in combination with activators, butyl rubber can be cured exhibiting excellent resistance to compression set and heat. Cure rates and physical properties can be adjusted with the amount of activator and resin, as well as the unsaturation of the butyl polymer.

Recommended loadings:

- Butyl 10-12 phr (plus halogen donor); Chlorobutyl 4-5 phr;
- Bromobutyl 1-3 phr (1 phr P-101 with 3 phr ZnO is used in pharmaceutical applications)

STORAGE:

P-101 is a stable material with no tendency to change in physical properties when stored under normal conditions.

PRECAUTIONARY LABELING:

The label for this material follows the Manufacturing Chemists Association recommendation:
CAUTION: MAY CAUSE SKIN IRRITATION. Avoid prolonged contact with the skin. Avoid prolonged breathing of vapor or dust. Use with adequate ventilation.

* U.S. Patent No. 2,701,895 and others to U.S. Rubber Co.

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