

# SP-1044

## Description

SP-1044 is a heat-reactive resin made from octylphenol and formaldehyde.

## General Product Data

### Product Specifications:

Capillary Melting Point (°F)	135-150
Methylol Content, %	7.50-9.50

Test Methods available upon request

### Typical Properties:

Softening Point, Ball&Ring (°C)	80-90
Physical Form	Flake
Specific Gravity	1.04

### Solubility:

SP-1044 is soluble in aromatic, aliphatic and chlorinated hydrocarbons, ketones; esters and limited in higher alcohols.

## Application

SP-1044 was specifically designed for the cure of Isobutylene-Isoprene (Butyl) rubber by the resin cure system\*. SP-1044, used in combination with halogen and zinc donors, yields butyl vulcanizates with outstanding resistance to high heat and compression set. In addition, these vulcanizates are non-blooming, non-staining and have high modulus values. Resin cured butyl rubber, because of its versatility and inherent ozone resistance, has been employed in many areas including tire curing bladders, conveyor belts, gaskets, and heat-resistant packing compounds. The octyl group also makes SP-1044 compatible with other elastomers, and can be used to make cements offering a wide range of properties. In addition, the reactive methylol groups can be used as functional sites for a variety of reactions such as with rosin for the printing ink market.

## Butyl Rubber Formulations

Exxon™ Butyl 268 <sup>1</sup>	100	100
HAF Carbon Black	50	50
Zinc Oxide	5	5
Stearic Acid	1	-----
SP-1044 Resin	10	10
Polychloroprene W	5	5

<sup>1</sup> Registered trademark of ExxonMobil Corporation

## Storage And Shelf Life

SP-1044 should be stored where temperatures do not exceed 86 °F (30 °C) for long periods of time. For best results, it is recommended that this product be used within 1 year of manufacture date. As with all phenolic resins, SP-1044 will become darker with age. Pallets should never be stored double stacked.

**Note:** Resins of this type are known to agglomerate or sinter during storage. This condition does not affect the performance of the resin in its normal application and is not considered justification for rejection or return.

## Packaging

SP-1044 is packaged in bags at 25 kilograms net weight, stretch-wrapped on pallets.

## Safety And Regulatory Information

For a current Safety Data Sheet (SDS) or other regulatory information, contact SI Group, Inc. at [productinfo@siigroup.com](mailto:productinfo@siigroup.com).