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**RESINS & TACKIFIERS**  
**-PHENOLIC-**

**SP-1056**  
**(formerly P-125 Resin)**

**PRODUCT DESCRIPTION:**

SP-1056 is a heat-reactive, brominated octylphenol-formaldehyde resin that contains methylol groups.

**TYPICAL PROPERTIES:**

Physical Form .....	Flake
Softening Point, Ball & Ring (°C).....	80 – 90
Specific Gravity .....	1.05
Methylol Content (%).....	9 – 11
Bromine Content (%).....	6 – 7.5
Melting Point, Capillary (°F).....	140 – 158

**SOLUBILITY:**

SP-1056 is soluble in aromatic, aliphatic, ketones and naphtha

**APPLICATION:**

SP-1056 may be used with butyl rubber or other unsaturated elastomers with or without functionality. The presence of functionality allow for a faster cure. SP-1056 is unique in that it does not require a halogen donor. The use of brominated resins in compounding is especially effective when the rubber may be exposed to heat or repeated use. The rubber will not deteriorate as quickly as rubber crosslinked with other curing agents. SP-1056 exhibits good processing properties and offers an adequate scorch safety margin in a wide processing range. Rubbers compounded with SP-1056 exhibit exceptional scorch safety, high temperature stability and excellent dynamic properties. SP-1056 has a faster cure than SP-1055 due to a higher bromine content. SP-1056 has a faint halogen odor, and normal handling precautions should be followed.

**Recommended loadings:**

SP-1056 is a self-activating resin for butyl rubber whereby the recommended usage is 12 phr, however, where maximum ozone resistance is required, 15 phr is needed. 5 phr is recommended with chlorobutyl, and 5 to 15 phr for the unsaturated polymers. For EPDM use 15 phr. To maximize state-of-cure, use 5 phr ZnO and 5 phr Hypalon as activators.

**STORAGE:**

For best results, SP-1056 should be stored where temperatures do not exceed 86°F for extended periods of time. As with all phenolic resins, SP-1056 will become darker with age.

rh 8/17 X-sp-1056/p125

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