SP-1055

Description

SP-1055 is a heat-reactive, brominated octylphenol-formaldehyde resin that contains methylol groups.

General Product Data

Product Specifications:

Softening Point, B&R, (°C)	85-95
Methylol Content, (%)	10-14
Bromine Content, (%)	3.6-4.0
Melting Point, Capillary, (°F)	140-158

Test Methods available upon request

Typical Properties:

Specific Gravity	1.05
Gardner Color, 64% in Toluene	<12
Physical Form	Flake

Solubility:
SP-1055 is soluble in aromatic, aliphatic, ketones and naphthas.

Application

SP-1055 may be used with butyl rubber or other unsaturated elastomers with or without functionality. The presence of functionality allows for a faster cure. SP-1055 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-1055 Flaked Resin exhibits good processing properties and offers an adequate scorch safety margin in a wide processing range. The flaked form allows for easy handling. SP-1055 has a faint halogen odor, and normal handling precautions should be followed.

Rubbers compounded with SP-1055 exhibit exceptional scorch safety, high temperature stability, and excellent dynamic properties. SP-1055 has a slower cure than SP-1056, due to a lower bromine content.

Brominated heat-reactive phenolic resins are also used to partially crosslink elastomers to create pressure-sensitive adhesives. This gives the pressure-sensitive adhesive improved cohesive strength while imparting little color to the finished adhesive, thus allowing for clearer film formation.

Storage And Shelf Life

SP-1055 should be stored where temperatures do not exceed 86 ºF (30 °C) for long periods of time. For best results, it is recommended that this product be used within 6 months of manufacture date. If the resin is stored and transported under the cool conditions 50-60 ºF (10-15 °C), with the avoidance of the excessive moisture, the usage of the material can be considered for up to 12 months. As with all phenolic resins, SP-1055 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

The standard packaging for SP-1055 is multi-wall paper bags at 25 kilograms (55.1 pounds) net weight.

Safety And Regulatory Information

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

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