

# ELAZTOBOND™ B8-3410

## Description

ELAZTOBOND™ B8-3410 is a resorcinol-free novolac resin with high renewable organic content intended for use in rubber to metal adhesion. Used in combination with methylene donor such as HMT or HMMM it provides superior bonding of rubber compounds to non-rubber parts: fibers, fabrics and metals of the finished article.

The resorcinol free bonding resin provides superior, longstanding adhesion of vulcanized rubber to steel and textile cords in tires, belting, and hose applications; thus enabling safe and efficient performance.

Due to low free monomer content, no fumes generation, and being produced from renewable organic content, this resin is a safer and more sustainable choice for handling, compounding and rubber vulcanization processes.

## Performance Highlights

- Excellent wire adhesion properties even without cobalt salts
- High scorch protection without significant loss in cure rate
- Physical properties have better retention of hardness and ductility on aging than competitive resins
- Improved rubber-to-rubber adhesion
- Resorcinol-free resin

## General Product Data

### Product Characteristics:

Softening Point (Ball and Ring), (°C)	95-110
Phenol, %	0.0-0.80

Test Method available upon request

### Typical Properties:

Specific Gravity	1.17
Physical Form	Flakes
Color	Dark Brown

## Storage And Shelf Life

ELAZTOBOND™ B8-3410 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 12 months of manufacture date. 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.

## Test Performance

### Starting Recipe:

Ingredients	Quantity (phr)
Natural Rubber	100
Carbon Black – N326	55
Silica	10
Zinc Oxide	4
Stearic Acid	2
Phenolic Antioxidant	2,5
Resin	2
Paraffinic Oil	5
Insoluble Sulfur	3,65
DCBS	1,51
HMMM (65% active)	3

### Results:

	<b>No Resin</b>	<b>Standard RF (SRF-1501)</b>	<b>ELAZTOBOND™ B8-3410</b>
Ts1	100	102	125
Tc90	100	110	131
MH-ML	100	129	131
Shore Hardness	100	111	117
Wire Adhesion	100	145	140
Modulus @25%	100	153	200

## Packaging

ELAZTOBOND™ B8-3410 is packaged in lined paper bags. Standard packaging is 25 kilogram bags.

## Safety And Regulatory Information

For a current Safety Data Sheet (SDS), please contact SI Group, Inc. at [sds.info@siigroup.com](mailto:sds.info@siigroup.com)