SOVEREIGN CHEMICAL

Technical Data Sheet

Rubbond RR95

Manufacturer: TWC Rajsha Chemicals Private, Ltd.

Classification: Phenol Formaldehyde Resin

CA Nomenclature: Tall Oil modified Thermoplastic phenol-formaldehyde Reinforcing Resin

Specification Properties	Value	Test Method
Ash Content, % at 950ºC	0.5 maximum	ASTM D4574/T-04
Free Phenol, %	2 maximum	ASTM D1312/T-38A
Moisture Content KF, %	0.5 maximum	ASTM E 203/T-03/1
Softening Point, Ring & Ball, ºC	90-105	ASTM D6493/T-23
Typical Properties	**Value**	**Test Method**
Physical Form	Brown pastille	Visual
Specific Gravity	1.16±0.05	Typical

> APPLICATIONS

Uses: Rubbond RR95 resin could be used as reinforcing agents for rubber compounds containing NR, SBR, BR, NBR, EPDM and CR rubbers for the manufacture of treads and sidewalls of tires, window sealing strips of cars, rubber rollers, floor coverings, brake linings, oil-resistant seals, heels and soles of shoes, and hard hose materials. As a reinforcing material, the use of Rubbond RR95 resin in rubber compounds can improve the hardness, tear resistance, abrasion resistance, tensile strength, reduced Mooney viscosity and prolonged scorch time properties. CNSL, tall oil and alkylphenol modified resins are expected to have better compatibility with rubber compounds so that accelerated filler dispersions with improved processability of rubber could be achieved.

Rubbond RR95 resin should be used along with another methylene donor, such as hexamethylenetetramine (HMT) or hexamethoxymethylmelamine (HMMM), in the rubber compounding applications. In order to achieve an optimum reinforcement in rubber compounds, these reinforcing resins should be added at a level of about 5 - 15 weight %.

In the rubber compound mixing process, to avoid pre-vulcanization and, to achieve good scorching property, Rubbond RR resins (as methylene acceptors) should be added during the first stage of mixing. The methylene donors, such as HMT or HMMM, should be added together with sulfur and accelerators at the final mixing stage.

> PACKAGING AND STORAGE

Packaging: 25 kg (55.1 lb.) bags.

Shelf Life: 1 year from date of manufacture if stored as indicated below.

Storage: Store in unopened original packages in a cool dry place.

Specification Date: November 1, 2026 (supersedes December 1, 2022)

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