



RUBBOND® RR110

TECHNICAL DATA SHEET

Issue No
001/04

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01.10.2022

Product - Trade Name

RUBBOND® RR110

Classification

Reinforcing Phenolic Resin
Reinforcing Phenol Formaldehyde Resin

Composition

Unmodified thermoplastic phenol-formaldehyde (PF) resins with low free Phenol and without Hexamethylenetetramine.

Physical properties

Form : Colourless to Yellowish Pastille
Sp. Gr. @ 25°C : 1.240 ± 0.040

Chemical Properties

Phenolic Reinforcing Resins - Technic Series	
Resin	RUBBOND RR-110
Modifier	Unmodified
Softening Point (°C, R&B)5°C / Min	90 - 120
Moisture Content (KF, %)	0.5 Max
Ash Content (% , 750°C/2hrs)	0.5 Max
Free Phenol (%)	< 1.0

Applications

RUBBOND® RR110 resin could be used as reinforcing agents for rubber compounds containing natural rubber (NR), styrene-butadiene rubber (SBR), butadiene rubber (BR), nitrile-butadiene rubber (NBR), ethylene propylene diene monomer (EPDM) rubber and chloroprene (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, hard hose materials, and typewriter / paper platen rollers.

As a reinforcing material, the use of RUBBOND® RR110 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 alkyl-phenol modified resins are expected to have better compatibility with rubber compounds so that accelerated filler dispersions with improved processability of rubbers could be achieved.

Use in Rubber Compounds

RUBBOND® RR110 resin products 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 also, 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

25 Kg (Net weight) in paper bags

Storage

Stable for one year, when stored at ambient temperature in original sealed container & in well ventilated place

Shelf Life

1 Year from the date of manufacture

Health and Safety Information

Before handling this material:

- Refer to the Safety Data Sheet (SDS) prior to use
- Wear gloves, safety glasses and dust masks
- In the case of skin contact, wash with soap and water.

REACH Compliance:

Material is meeting the REACH compliance.

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RAJSHA CHEMICALS PRIVATE LIMITED

www.twc.in

Works:

Block No.: 637, Lamdapura Road, At. Manjusar
PO: Lamdapura, Ta: Savli, Dist. Vadodara 391 775, India
Tel – +91 9662049271
Email – office@rajsha.com

TWC Group , Corporate Office:

Hi Tech Chambers, 5th Floor, 84/1B Topsia Road (S)
Kolkata 700 046, India
Tel – +91 33 2285 1278 / 1279. Fax - +91 33 2285 1280
E mail – info@twc.in