



RUBBOND® RR 100H

TECHNICAL DATA SHEET

Issue No
001/01

Revision Date
01.12.2022

Product

RUBBOND® RR100H

Classification

Reinforcing Phenolic Resin
Reinforcing Phenol Formaldehyde Resin with Hexa Methylene Tetramine

Composition

Phenol – formaldehyde (PF) resins with Hexa Methylene Tetramine

Physical properties

Parameter	Specification
Physical Form	Light to Tan Powder

Chemical Properties

Parameter	Specification	Test Method
Melting Point (°C)	80 - 90	D1519
HMT Content (%)	9 - 11	IS4306, RCPL T-07
Norton Flow @ 125°C (mm)	30 - 50	RCPL T-34
Gel Time @ 150°C (Sec)	20 - 40	D3532/ D4640
Volatile matter @160°C,2Hrs, (%)	Max. 5	D4571
Ash Content @ 900 °C,2Hrs (%)	Max. 1	D4574

General Recommendations

Recommended for use in SBR Rubber. Compatible in SBR Rubber to the extent of 10-15 parts per hundred. This amount of resin will act as an effective plasticizer during processing and will contribute strongly to hardness, stiffness and abrasion resistance after cure.

The compatibility of RR 100H with SBR Rubber can be greatly increased by using Nitrile Rubber in the formulation. The Nitrile Rubber services as a common solvent or flux.

These recommendations also apply to Natural Rubber and EPDM, and to their blends with SBR. As with most phenolics, RR 100H is fully compatible with Nitriles.

Use in Rubber Compounds

RUBBOND® RR 100H resin should be used along with another methylene donor, such as 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 HMMM, should be added together with sulfur and accelerators at the final mixing stage.

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.

Packaging

25 Kgs in HDPE laminated paper bags

Storage

Store in a cool and dry storage area in original sealed container

Shelf Life

12 Months from the date of manufacture under the normal storage conditions

REACH Compliance:

Material is meeting the REACH compliance.

IMPORTANT! The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied is made regarding performance stability or otherwise. This information is not intended to be all inclusive as the manner and conditions of use, handling, storage and other factors may involve other and additional safety and performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer.

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