

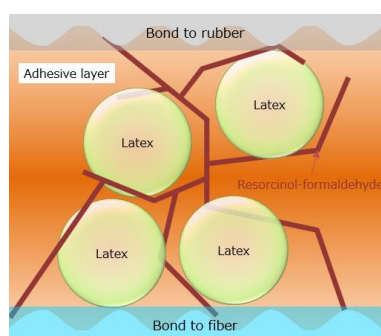
## NEWS RELEASE

### Teijin Frontier Launches Eco-minded Adhesive for Rubber Reinforcing Fiber

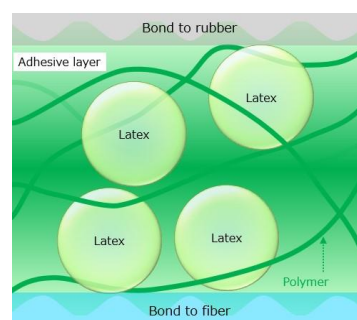
Tokyo, Japan, March 5, 2020 --- [Teijin Frontier Co., Ltd.](#), the [Teijin Group's](#) fibers and products converting company, announced today that it has launched a new eco-minded adhesive for rubber reinforcing fiber that does not use resorcinol-formaldehyde (RF) but still achieves the same level of performance as conventional methods. The new adhesive, one of Teijin Frontier's latest "THINK ECO" applications to protect the environment in fields ranging from fashion to industrial textiles, will be test marketed beginning this year. The company is targeting annual production of 200,000 tons in 2028.

Resorcinol-formaldehyde latex (RFL) adhesives have long been used to reinforce rubber products, such as tires, with fiber to maintain strength and morphological stability. In recent years, however, demands have been growing for solutions that do not use RF, which has been shown to have harmful effects on the human body.

The new adhesive uses a non-RF blended polymer for bonding. The polymer, which is reticulated by intermolecular interaction, achieves a high level of adhesiveness, equivalent to that of an RFL adhesive thanks to its high affinity for both fiber and rubber. Going forward, Teijin Frontier will continue to develop diverse applications for various kinds of rubber materials, including tires, belts, hoses and more.



RFL adhesive



Newly developed adhesive

#### About the Teijin Group

Teijin (TSE: 3401) is a technology-driven global group offering advanced solutions in the areas of environmental value; safety, security and disaster mitigation; and demographic change and increased health consciousness. Its main fields of operation are high-performance fibers such as aramid, carbon fibers & composites, healthcare, films, resin & plastic processing, polyester fibers, products converting and IT. The group has

over 170 companies and around 20,000 employees spread out over 20 countries worldwide. It posted consolidated sales of JPY888.6 billion (USD 8.1 billion) and total assets of JPY 1020.7 billion (USD 9.3 billion) in the fiscal year ending March 31, 2019.

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