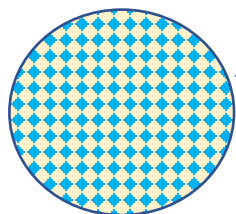


NANOFRONT™ ULTRA FINE CHOPPED POLYESTER FIBER FOR RUBBER MIXING

Sea and Island bi-component fiber



Island part: PET

Sea part: PE

Application



1. Chopped fiber of Sea and Island bi-component fiber

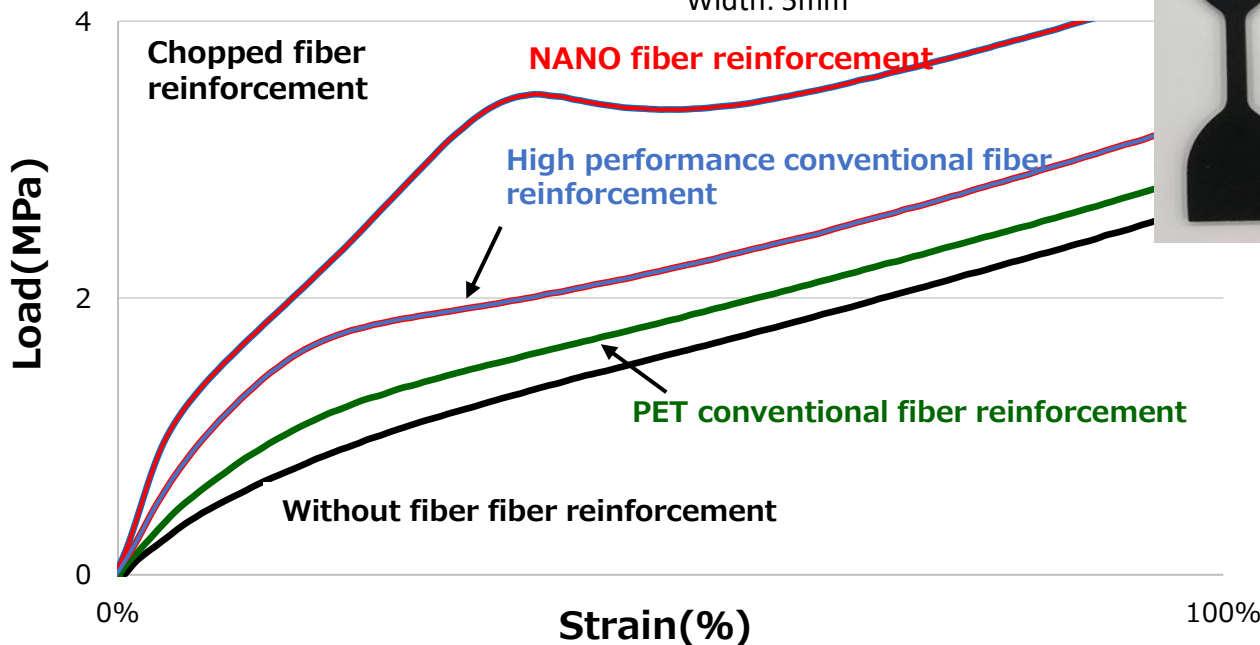
- Island part is Polyester nano fiber : 400nm or 700nm diameter
- Sea part is polyethylene ; could be compatible with rubber matrix by heat mixing

2. Feature

- Good dispersion and high orientation effect by heat mixing
- By adding only half quantity of Nanofront™ fiber the process can achieve higher performance as compared with using high performance of conventional fiber
- Low Carbon Footprint of products (CFP) due to NON-DIP treatment

3. Performance

Tensile properties(Fiber axis direction) •Sample size Thickness:2mm Speed:500mm/min Width: 5mm •Condition



-- High aspect ratio and number of fiber produces high modulus and high durability.

Diameter X Length	Number of fiber	Aspect ratio (Length / Diameter)
400nm×0.5mm	25,000	1,250
700nm×1.0mm	4,080	1,429
20µm×5mm : conventional fiber	1	250