



Rubber Heat-resistant Adhesive LG-80

Compositions:

LG-80 agent consists of molecule of reactive hydrocarbons, Nano-silicon dioxide, boron complex and anti-aging new materials. The agent is a new multi-functional material which produced by in-situ composite, weak bond suspended, active coated and diameter expanding of particle technologies.

Properties:

It is non-toxic, harmless to human and no environmental pollution.

Item	Specification	Test Method
Appearance	light grey powder	visual inspection
Heating loss (105°CX2h) ,%	≤2.0	HG/T3065
Ignition loss (800°CX2h),%	≤15.0	HG/T3066
pH Value	8.0~10.5	HG/T3067

Advantages:

1. It can improve the adhesion force: In the steel tires, semi-steel tires and engineering tire, the Nano-silicon dioxide, Boron Compounds and molecule of reactive hydrocarbons will be involved in adhesion reaction, which can improve the adhesion between rubber and steel cord, polyester, nylon and other framework materials, meanwhile, the adhesion after aging also can be improved significantly.
2. It can reduce the porosity and improve the compactness of rubber. This new material can effectively capture and consume heating expansion of small molecules under pressure, so it can reduce the porosity, and improve the compactness of the rubber with filling nanomaterial's gap. Meanwhile, it also can improve the heat resistance and fatigue resistance of final vulcanized rubber products.
3. It has excellent technologies. The new material has interfacial activity component, which can reduce the interfacial energy among all materials in formula. This will stabilize the dimension of rubber sheet and tires, and products surface will be smoother.

Usage and Dosage:

- 1) Add LG-80 agent together with Zinc Oxide when mixing rubber master-batch.
- 2) 6~8 units of total tire compound can be used for tire carcass, rubber sheet, rubber belt, and tire transition layer.
- 3) More than 15 units can be used for inner-liner application.

Packing and Storage:

It is packed in Kraft paper bags lined with plastic film, net weight is 25kg/bag.

It should be stored in a cool, dry warehouse.

The shelf life is 36 months.