



## FR PE COMPOUND

Balance of properties with PE & Flame retardancy.

A Challenging product for the cable industry.

Today the challenge that Polyethylene material face is that it is a highly combustible polymer, there are different types of PE which are used depending upon molecular weight distribution. For example low density polyethylene is a form of flexible plastic, whereas high density polyethylene is a tougher and more rigid plastic.

Keeping in mind the safety of people, infrastructure and transport, Flame retardant polyethylene can be used. Flame retardants interfere with combustion process or stop the oxygen source of the flame.

In regards to the cable industry & in particular to power cables manufactured as per IEC 60502, the predominately preferred outer jacket material is PE, LSZH and PVC. After discussion with various cable manufacturers, we at Shakun felt that there was always a need for a product which could make the product flame retardant with high mechanical properties.

We are glad to introduce Shakun's new grade **SPL-ZHFR-EXP-555 (Nat), of FRPE**, which keeps balance of properties of PE as well as functionality of Flame retardancy.

Our R & D team has worked to give the wire and cable industry a challenging product, which they have desired for a long time.

The compound will display the following advantages:



- FR - PE properties.
- Meeting the requirement of ST 3 & ST 7 as per IEC 60502
- Tensile Strength >12.5 MPa and Elongation at break > 300%.
- LOI of 30
- Successfully passed the single flame test, as per IEC 60331-1-2

ECOTEK®

FRTEK®

VINYLTEK®

ESCOTEK®

PE Sheathing