

# Lushan® EF-13

- **Maleic Anhydride Grafted**

**Polyethylene**

*Lushan, one of the most innovative technological enterprises in China, is committing to bonding a more wonderful world with the power of chemistry R&D technology.*

## Description

Lushan® EF-13 is anhydride-modified polyethylene product and is available in pellet form. Designed for multi-layer films composed of polyethylene (PE) and EVOH or PA.

## Technical Properties

1. High bonding strength with PE and PA/EVOH
2. Little crystal point/ gel content/ fish eye
3. Dilution ratio---1:8 to 1:5

| Item                      | Value                                  | Method     |
|---------------------------|----------------------------------------|------------|
| Appearance                | Natural color or light yellow granule  | Visual     |
| Density                   | 0.918 g/cm <sup>3</sup>                | ASTM D792  |
| MI (190 °C / 2.16 Kg)     | 1.2g/10min                             | ASTM D1238 |
| Melting Point (DSC)       | 121 °C                                 | ASTM D3418 |
| Vicat Softening Point     | 92 °C                                  | ASTM D1525 |
| Tensile Strength at Break | > 10 MPa                               | ASTM D638  |
| Elongation at Break       | > 600 %                                | ASTM D638  |
| Application               | HFFR Compounds/EVOH or PA-Tie Resin-PE |            |

\* These are typical properties and not intended as specification.

## Processing Temperature (For Recommendation)

| Processing Technology | Processing Temperature (°C) |         |          |            |
|-----------------------|-----------------------------|---------|----------|------------|
|                       | Zone I                      | Zone II | Zone III | Mould Head |
| Extrusion             | 190                         | 215     | 215      | 210        |

## Packaging & Storage

- Packed in 25kgs paper-plastic bag lined with polyethylene film bag.
- Store in dry, cool and ventilated environment; avoid exposure to water & strong light.  
Securely wrap the unused.
- Shelf Life: one year.