

# OREVAC<sup>®</sup> 18307

## Maleic anhydride grafted Polyethylene

### Description

OREVAC 18307 is a maleic anhydride grafted High-density polyethylene, which is an effective coupling agent in non-halogen flame retardant cable compounds using high loadings of mineral fillers.

### Applications

Insulation and sheathing cables compounds which require outstanding mechanical properties—high tensile strength at break and good elongation – good abrasion and good chemical resistance.

### Typical characteristics

Characteristics	Value	Unit	Test Method
Melt index (230°C / 2,16 kg)	2.5	g/10mn	ISO 1133
Melting point	135	°C	DSC (internal)
Vicat	126	°C	ISO 306
Density	0.954	g/cm <sup>3</sup>	ISO 1183
Strength at yield <sup>1</sup>	25	MPa	ISO R 527 / ASTM D 638
Elongation at break <sup>(1)</sup>	200	%	ISO R 527 / ASTM D 638
Hardness shore D	65	At t=0s	ISO 608

<sup>(1)</sup> Measurement done on samples prepared from compressed molded sheet (speed test 10mm/min.)

### Processing

OREVAC 18307 is suitable for the production of cable compounds with the most common types of equipment (internal mixers, Buss kneader, twin screw extruders); it provides an effective coupling between the base polymers (Evatane, Lotryl, various polyolefin's) and the mineral fillers (Ath, Mdh).

### Storage and handling

OREVAC 18307 must be stocked in dry conditions below than 50°C and protected from UV rays. Improper storage conditions can cause degradation and have consequences on the physical properties of the product. Shell life is 2 years from the production date.

### Security / Precautions of use

A safety data sheet is available close to your correspondent ARKEMA or on the site [www.arkemagroup.com](http://www.arkemagroup.com) under heading FDS.

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