

## OREVAC<sup>®</sup> 18507

OREVAC<sup>®</sup> 18507 is a maleic anhydride grafted high-density polyethylene.

- OREVAC<sup>®</sup> 18507 has been designed to be used as coupling agent in halogen free flame retardant cable compounds. It provides outstanding mechanical properties, high tensile strength at break and good elongation, good abrasion and good chemical resistance.
- OREVAC<sup>®</sup> 18507 is suitable also to develop a reliable bonding strength between HDPE resins and mineral filler or natural fibers. Designed to develop a reliable bonding between polyethylene or most ethylene copolymers and many kinds of different materials among which polyamides and EVOH.

### Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	5
Melting Point	ISO 11357-3	°C	128
Density	ISO 1183 / ASTM D1505	g/cm <sup>3</sup>	0.95
Elongation at Break <sup>1</sup>	ISO 527 / ASTM D638	MPa	800
Tensile strength at break <sup>1</sup>	ISO 527 / ASTM D638	MPa	10
Hardness Shore D <sup>1</sup>	ISO 868 / ASTM D2240		66

<sup>1</sup>: On compression molded samples.

## **Processing**

OREVAC® 18507 is suitable for the production of compounds with the most common types of equipments (internal mixer, Büss®, kneader, twin screw extruder); it provides an effective coupling between the base polymers, mineral fillers (ATH, MDH), and natural fibers.

## **Storage, Handling & Safety**

OREVAC® 18507 should be stored in dry conditions protected from UV-light. Improper storage conditions may cause degradation and have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of the OREVAC® 18507 is available upon request to your SK Functional Polymer representative.

## **Shelf Life**

Three years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

*The information above is believed to be accurate and represents the best information currently available to us. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to SK Corporation's standard terms and conditions of sale, copies of which are available upon request and which are part of SK Functional Polymer invoices and/or order acknowledgments. Except as expressly provided in SK Corporation's standard terms and conditions of sale, SK Corporation makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and SK Corporation assumes no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. SK Functional Polymer is a subsidiary of SK Global Chemical.*