

OREVAC[®] 18507

OREVAC[®] 18507 is a maleic anhydride grafted high-density polyethylene.

- OREVAC[®] 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[®] 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	g/10min.	5
Grafted MAH content	Internal	%	[0.6 - 1.0]
Melting Point	ISO 11357	°C	128
Density	ISO 1183 / ASTM D792	g/cm ³	0.95
Elongation at Break ¹	ISO 527 / ASTM D638	MPa	800
Tensile strength at break ¹	ISO 527 / ASTM D638	MPa	10
Hardness Shore D ¹	ISO 868 / ASTM D2240		66

¹: On compression molded samples.

Processing

OREVAC® 18507 is suitable for the production of compounds with the most common types of equipment (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 a ventilated area, away from heat, humidity and direct sunlight. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of the OREVAC® 18507 are available upon request to your SK Functional Polymer representative or at www.sk-fp.com.

Shelf Life

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