

OREVAC[®] 18507

High-density polyethylene based coupling agent for filled compounds

DESCRIPTION

OREVAC[®] 18507 is a chemically functionalized high-density polyethylene with a high content of maleic anhydride. Grafted maleic anhydride induces polarity and leads to outstanding adhesion properties on natural fibers and mineral fillers.

TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Melt Index (190°C / 2.16 kg)	5	g/10min	ISO 1133 / ASTM D1238
Melting point	128	°C	ISO 11357-3
Density	0.954	g/cm ³	ISO 1183 / ASTM D1505
Elongation at Break ⁽¹⁾	800	MPa	ISO 527 / ASTM D638
Tensile strength at break ⁽¹⁾	10	MPa	ISO 527 / ASTM D638
Hardness Shore D ⁽¹⁾	66	-	ISO 868 / ASTM D2240

⁽¹⁾ On compression molded samples.

APPLICATIONS

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.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

OREVAC® 18507

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 AND 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 **OREVAC® 18507** is available upon request to your ARKEMA representative or on the web site orevac.com.

SHELF LIFE

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

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