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/cm³	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® BY ARKEMA

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.

April 2014

The products described in the brochure are not Medical grades designated for Medical Device applications. Arkema has implemented an internal Medical Policy regarding the use of Arkema products in Medical Devices applications that are in contact with the body or circulating bodily fluids. Arkema has designated Medical grades to be used for such Medical Device applications. Products that have not been designated as Medical grades are not authorized by Arkema for use in Medical Device applications that are in contact with the body or circulating bodily fluids. In addition, except for limited cases as determined by the Medical Device Policy, Arkema strictly prohibits the use of any Arkema products in Medical Device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days.
For any use of Arkema's product in Medical Device applications, please contact Arkema's sales network.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.
See MSDS for Health & Safety Considerations.

ARKEMA Société anonyme au capital de 614 937 940 euros - 445 074 685 RCS Nanterre

Arkema Functional Polyolefins
420, rue d'Estienne d'Orves
92705 Colombes Cedex - France
arkema.com – **orevac.com**

ARKEMA
INNOVATIVE CHEMISTRY