

OREVAC[®] 18343

OREVAC[®] 18343 is a maleic anhydride grafted linear low-density polyethylene.

- OREVAC[®] 18343 has been designed to develop a reliable bonding strength between polyethylene or ethylene copolymers and mineral fillers such as aluminum trihydrate (ATH) or magnesium hydroxide (MDH). It is an effective coupling agent for halogen-free flame retardant (HFFR) compounds using high loadings of mineral fillers, such as compounds for insulation and sheathing of wires and cables.

Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133	g/10min.	< 2
Grafted MAH content	Internal	%	> 1
Melting Point	ISO 11357	°C	121
Density	ISO 1183	g/cm ³	0.92
Vicat Softening Temperature (10N) ¹	ISO 306	°C	97
Tensile modulus ¹	ISO 527 / ASTM D638	MPa	210
Elongation at break ¹	ISO 527 / ASTM D638	%	> 700
Tensile strength at break ¹	ISO 527 / ASTM D638	MPa	> 18

¹: On compression molded samples.

Processing

OREVAC® 18343 is suitable for the production of cable compounds with most common types of equipment (internal mixer, co-kneader, twin screw extruder). Typical extrusion temperature settings could be:

Zone 1	Zone 2	Zone 3	Zone 4	Exit	Fittings-Channels	Die
180-190°C	190-200°C	200-210°C	210-220°C	220-230°C	220-240°C	220-240°C

Final profile and settings will depend on the processing line.

Storage, Handling & Safety

OREVAC® 18343 should be stored in dry conditions, protected from direct sunlight. 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® 18343 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.