

OREVAC[®] 18343

Under development

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 / ASTM D1238	g/10min.	< 2
Melting Point	ISO 11357-3	°C	121
Vicat Softening Temperature (10N) ¹	ISO 306 / ASTM D1525	°C	95
Density	ISO 1183 / ASTM D1505	g/cm ³	0.92
Tensile modulus ¹	ISO 527-2 / ASTM D638	MPa	200 to 300
Elongation at break ¹	ISO 527-2 / ASTM D638	%	>500
Tensile strength at break ¹	ISO 527-2 / ASTM D638	MPa	>15
Hardness Shore D (1s/15s) ¹	ISO 868 / ASTM D2240		55 / 45

¹: On compression molded samples.

* Typical properties, as this grade is under development, to be confirmed

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 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® 18343 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.