OREVAC® 18342

Linear low-density polyethylene tie resin for industrial applications

Description

OREVAC® 18342 is an anhydride modified linear low-density polyethylene available in pellet form. It can be processed on most extrusion equipments designed to process conventional polyolefin.

Applications

OREVAC® 18342 is used as tie layer in 3 layers polyethylene coatings (epoxy primer / adhesive / polyethylene) for external protection of steel pipe. **OREVAC® 18342** is also an effective coupling agent in non-halogen flame retardant cable compounds using high loadings of mineral fillers which require outstanding mechanical properties – high tensile strength at break and good elongation and good chemical resistance. For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

Typical properties

Characteristics	Value	Unit	Test Method
Melt index (190°C / 2.16 kg)	1.5	g/10min	ISO 1133 / ASTM D1238
Melting point	123	°C	ISO 11357-3
Density	0.912	g/cm^3	ISO 1183 / ASTM D1505
Vicat softening temperature (10N)(1)	84	°C	ISO 306 / ASTM D1525
Tensile strength at yield (1)	7	MPa	ISO 527-2 / ASTM D638
Elongation at break (1)	790	%	ISO 527-2 / ASTM D638
Tensile strength at break (1)	20	MPa	ISO 527-2 / ASTM D638

(1) On compression molded samples.

Processing

OREVAC® 18342 is to be processed like a standard polyethylene resin. Temperature settings have a major influence on adhesion development. As a consequence we recommend to process **OREVAC® 18342** at the minimum melt temperature of 210°C.Typical extrusion temperature settings could be:

Zone 1	Zone 2	Zone 3	Zone 4	Exit	Fittings-Channels	Die
160 – 180°C	180 – 200°C	200 – 220°C	210 – 230°C	215 – 230°C	220 –230°C	220 – 240°C

For the production of cable compounds, **OREVAC® 18342** is suitable with the most common types of equipment (internal mixers, Buss® kneader, twin screw extruders). It provides an effective coupling between the base polymers (EVATANE®, LOTRYL®, various polyolefins) and the mineral fillers (ATH, MDH).

Storage, handling and safety

OREVAC® 18342 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® 18342** is available upon request to your ARKEMA representative or at www.orevac.com.

September 2010

The world is our inspiration
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