

# OREVAC<sup>®</sup> 18302N

OREVAC<sup>®</sup> 18302N is a maleic anhydride grafted linear low-density polyethylene.

- OREVAC<sup>®</sup> 18302N has been designed to develop a reliable bonding strength in coextrusion processes between polyethylene or ethylene copolymers and different materials among which polyamides and EVOH.
- OREVAC<sup>®</sup> 18302N is also recommended in non-halogen flame retardant cable compounds using high loadings of mineral fillers which require outstanding mechanical properties such as high tensile strength at break and good elongation and good chemical resistance.

## Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	1.5
Melting Point	ISO 11357-3	°C	123
Vicat Softening Temperature (10N) <sup>1</sup>	ISO 306 / ASTM D1525	°C	84
Density	ISO 1183 / ASTM D1505	g/cm <sup>3</sup>	0.91
Tensile strength at yield <sup>1</sup>	ISO 527-2 / ASTM D638	MPa	7
Elongation at break <sup>1</sup>	ISO 527-2 / ASTM D638	%	790
Tensile strength at break <sup>1</sup>	ISO 527-2 / ASTM D638	MPa	20

<sup>1</sup>: On compression molded samples.



## Processing

OREVAC® 18302N is to be processed like a standard medium density polyethylene resin. It can be processed within different extrusion and coextrusion technologies including blown film, blow moulding and tube coextrusion. Temperature settings have a major influence on adhesion development. Therefore, it is recommended to process OREVAC® 18302N 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® 18302N 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 & Safety

OREVAC® 18302N 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.

