

# OREVAC<sup>®</sup> 18342N

OREVAC<sup>®</sup> 18342N is a maleic anhydride grafted high-density polyethylene.

- OREVAC<sup>®</sup> 18342N has been designed to develop a reliable bonding strength with polyethylene or most ethylene copolymers and many kinds of different materials among which polyamides and EVOH.
- OREVAC<sup>®</sup> 18342N can be processed by means of different extrusion and coextrusion technologies including blown and cast coextrusion film, blow moulding and tube coextrusion.
- OREVAC<sup>®</sup> 18342N also develops adhesion onto FBE (Fusion Bonded Epoxy) steel pipe protective layer.

## Typical Properties

	Test Method	Unit	Typical Value
Melt Index (190°C/2.16kg)	ISO 1133 / ASTM D1238	g/10min.	3.5
Melting Point	ISO 11357-3	°C	125
Vicat Softening Temperature (10N) <sup>1</sup>	ISO 306 / ASTM D1525	°C	110
Density	ISO 1183 / ASTM D1505	g/cm <sup>3</sup>	0.93
Tensile modulus <sup>1</sup>	ISO 527-2 / ASTM D638	MPa	310
Elongation at break <sup>1</sup>	ISO 527-2 / ASTM D638	%	>600
Tensile strength at break <sup>1</sup>	ISO 527-2 / ASTM D638	MPa	>20
Hardness Shore D <sup>1</sup>	ISO 868 / ASTM D2240		59

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

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## Processing

OREVAC® 18342N is to be processed like a standard polyethylene resin. Typical extrusion temperature settings could be:

Zone 1	Zone 2	Zone 3	Zone 4	Exit	Fittings-Channels	Die
190-200°C	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 line and the multi-layer structure being run.

## Storage, Handling & Safety

OREVAC® 18342N 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® 18342N 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.

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