

OREVAC[®] 18342N

OREVAC[®] 18342N is a maleic anhydride grafted high-density polyethylene.

- OREVAC[®] 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[®] 18342N can be processed by means of different extrusion and coextrusion technologies including blown and cast coextrusion film, blow moulding and tube coextrusion.
- OREVAC[®] 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	g/10min.	3.5
Grafted MAH content	Internal	%	< 0.2
Melting Point	ISO 11357	°C	125
Vicat Softening Temperature (10N) ¹	ISO 306	°C	110
Density	ISO 1183 / ASTM D792	g/cm ³	0.93
Tensile modulus ¹	ISO 527 / ASTM D638	MPa	310
Elongation at break ¹	ISO 527 / ASTM D638	%	>600
Tensile strength at break ¹	ISO 527 / ASTM D638	MPa	>20
Hardness Shore D ¹	ISO 868 / ASTM D2240		59

¹: 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 a ventilated area, away from heat, humidity and direct sunlight. Improper storage conditions may cause degradation and could have consequences on physical properties of the product.

Safety data sheet as well as information on handling and storage of the OREVAC® 18342N 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.