

Linear low-density polyethylene tie resin for blown film coextrusion

Description

OREVAC® 18302N is a maleic anhydride modified low-density polyethylene available in pellet form. It can be processed on most extrusion equipments designed to process conventional polyolefins.

Applications

OREVAC® 18302N has been designed to develop a reliable bonding strength between polyethylene or most ethylene copolymer and many kinds of different materials among which polyamides and EVOH. OREVAC® 18302N is recommended for blown film coextrusion.

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® 18302N 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
160 – 180°C	180 – 200°C	200 – 220°C	210 – 230°C	220 – 230°C	220 – 230°C	220 – 240°C

Final profile and settings depend on the line and the multi-layer structure being run.

Storage, handling and 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.

Safety data sheet as well as information on handling and storage of OREVAC® 18302N is available upon request to your ARKEMA representative or at www.orevac.com.

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