

Linear low-density polyethylene based tie resin for coextrusion

Description

OREVAC® 18365 is a maleic anhydride modified linear low-density polyethylene available in pellet form. It can be processed on most extrusion equipments designed to process conventional polyolefins.

Applications

OREVAC® 18365 has been designed to develop a reliable bonding strength in coextrusion processes between polyethylene or ethylene copolymers and polyamides. OREVAC® 18365 is recommended for cast film, blown film, or blow molding 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)	2.5	g/10min	ISO 1133 / ASTM D1238
Melting point	121	°C	ISO 11357-3
Density	0.916	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	90	°C	ISO 306 / ASTM D1525
Elongation at break ⁽¹⁾	930	%	ISO 527-2 / ASTM D638
Tensile strength at break ⁽¹⁾	24	MPa	ISO 527-2 / ASTM D638
Hardness Shore D ⁽¹⁾	45	-	ISO 868 / ASTM D2240

⁽¹⁾ On compression molded samples.

Processing

OREVAC® 18365 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® 18365 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® 18365 is available upon request to your ARKEMA representative or at www.orevac.com.

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