

Linear low-density tie resin for tube coextrusion**Description**

OREVAC® 18365S 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® 18365S has been designed to develop a reliable bonding strength between polyethylene or most ethylene copolymers including cross-linked PE and many kinds of different materials among which polyamides, EVOH and metals. It can be processed within different coextrusion technologies to produce multi-layer barrier pipes for floor heating.

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® 18365S is to be processed like a standard low-density 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® 18365S 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® 18365S** is available upon request to your ARKEMA representative or at www.orevac.com.

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