

OREVAC® 18365



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.