

OREVAC® 18211

EVA based tie resin for coextrusion

Description

OREVAC® 18211 is a coextrusion adhesive resin based on a maleic anhydride modified ethylene-vinyl acetate copolymer. It is available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyolefin.

Applications

OREVAC® 18211 has been designed to develop a reliable bonding strength in coextrusion processes between polyethylene or ethylene copolymers and different materials among which polyamides, PS, EVOH and PET. It can be processed within different extrusion and coextrusion technologies including cast film, blown film, sheet calendering, blow molding, tube extrusion.

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) | 3.5 | g/10min | ISO 1133 / ASTM D1238 |
| Melting point | 75 | °C | ISO 11357-3 |
| Density | 0.95 | g/cm ³ | ISO 1183 / ASTM D1505 |
| Vicat softening temperature (10N) ⁽¹⁾ | 51 | °C | ISO 306 / ASTM D1525 |

⁽¹⁾ On compression molded samples.

Processing

OREVAC® 18211 is to be processed like a standard polyethylene resin. Extrusion temperature settings could be:

| Zone 1 | Zone 2 | Zone 3 | Zone 4 | Exit | Fittings-Channels | Die |
|-------------|-------------|-------------|-------------|-------------|-------------------|-----------|
| 190 – 200°C | 200 – 200°C | 200 – 210°C | 210 – 220°C | 220 – 230°C | 220-230°C | 220-230°C |

We recommend not to reach melt temperature above 240°C. Too high processing temperature could lead to degradation of OREVAC® 18211 and acetic acid formation. Final profile and settings depend on the line and the multi-layer structure being run.

Storage, handling and safety

OREVAC® 18211 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.