

OREVAC[®] 18319

Maleic anhydride grafted polyethylene

Description

OREVAC 18319 is a maleic anhydride grafted polyethylene used in the manufacturing of multi-layer aluminium panels.

Main applications

OREVAC 18319 is mainly used in aluminium panels to have good adhesion performances between PE core and aluminium sheet.

OREVAC 18319 can be extruded in a cast process as a mono-layer film to laminated between a PE and an aluminium sheets. It is also possible to extrude is in a multi-layer structure (adhesive/PE/adhesive) then laminated between aluminium sheets.

Typical characteristics

Characteristics	Value	Unit	Test Method
Melt index (190°C / 2,16 kg)	1.2	g/10mn	ISO 1133
Melting Point	118	°C	DSC
Vicat softening point (1 kg)	85	°C	ISO 306
Density	0.945	-	ISO 1183

Physical characteristics

Characteristics	Value	Unit	Test Method
Strength at yield ⁽¹⁾	10.2	MPa	ASTM D 882
Elongation at yield ⁽¹⁾	2.6	%	ASTM D 882
Strength at break ⁽¹⁾	18	MPa	ASTM D 882
Elongation at break ⁽¹⁾	600	%	ASTM D 882

⁽¹⁾ Measurement done on film 75µm thick (speed test 10mm/min.)

Processing

OREVAC 18319 is transformed by extrusion with a flat die or by coextrusion. Extrusion conditions depend on the equipments and on the line configuration.

Zone 1	Zone 2	Zone 3	Zone 4	Exit	Fittings-Channels	Die
60 – 100	190 - 215	210 - 230	220 - 240	230 - 245	240 -250	240 - 250

Security / Precautions of use

OREVAC 18319 must be stocked in dry conditions below than 50°C and protected from UV rays. Improper storage conditions can cause degradation and have consequences on the physical properties of the product.

Shell life is 1 years from the production date.

A safety data sheet is available close to your correspondent ARKEMA or on the site www.arkemagroup.com under heading FDS.

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