

OREVAC[®] 18410

High-density polyethylene based tie resin for pipe-coating

DESCRIPTION

OREVAC[®] 18410 is a maleic anhydride modified high-density polyethylene used in pipe-coating technology for multi-layer structures. It is available in pellet form for use in conventional extrusion equipment designed to process polyolefin.

TYPICAL PROPERTIES

Characteristics	Value	Unit	Test Method
Melt Index (190°C / 2.16 kg)	3.5	g/10min	ISO 1133 / ASTM D1238
Melting point	125	°C	ISO 11357-3
Density	0.930	g/cm ³	ISO 1183 / ASTM D1505
Vicat softening temperature (10N) ⁽¹⁾	110	°C	ISO 306 / ASTM D1525
Tensile modulus ⁽¹⁾	310	MPa	ISO 527 - 2 / ASTM D638
Elongation at break ⁽¹⁾	> 600	%	ISO 527 - 2 / ASTM D638
Tensile strength at break ⁽¹⁾	> 20	MPa	ISO 527 - 2 / ASTM D638
Hardness Shore D ⁽¹⁾	59	-	ISO 608 / ASTM D2240

⁽¹⁾ On compression molded samples.

APPLICATIONS

OREVAC[®] 18410 has been designed to develop a reliable bonding strength onto FBE (Fusion Bonded Epoxy) steel pipe protective layer. It is mainly used as tie layer in three-layer high-density polyethylene coatings (epoxy primer / adhesive / polyethylene), where mechanical and adhesive performances at high temperatures are required.

For more detailed information and recommendations regarding your specific application, please contact your local ARKEMA technical representative.

OREVAC® 18410

PROCESSING

OREVAC® 18410 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
190 - 200°C	200 - 200°C	200 - 210°C	210 - 220°C	220 - 230°C	220 - 240°C	220 - 240°C

Final profile and settings depend on the line and the multi-layer structure being run.

STORAGE, HANDLING AND SAFETY

OREVAC® 18410 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® 18410 is available upon request to your ARKEMA representative or at orevac.com

SHELF LIFE

Two years from the date of delivery, in unopened packaging. For any use above this limit, please refer to our technical services.

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