

High-density polyethylene based powder tie resin for pipe-coating

Description

OREVAC® 18410P is a maleic anhydride modified high-density polyethylene powder used in pipe-coating technology for multilayer structures.

Applications

OREVAC® 18410P has been designed to develop a reliable bonding strength onto 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.

Typical properties

Characteristics	Value	Unit	Test Method
Melt index (230°C / 2.16 kg)	3.5	g/10min	ISO 1133 / ASTM D1238
Melting Point	125	°C	ISO 11357-3
Density	0.930	-	ISO 1183 / ASTM D1505
Vicat softening point (10N) ⁽¹⁾	110	°C	ISO 306 / ASTM D1525
Strength at Yield ⁽¹⁾	12.4	MPa	ISO 527-2 / ASTM D638
Elongation at break ⁽¹⁾	>600	%	ISO 527-2 / ASTM D638

⁽¹⁾ On compression molded samples.

Processing

OREVAC® 18410P is usually applied by powder sintering, or gun spray projection and application must be done prior the complete reaction of the epoxy primer.

Storage, handling and safety

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

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