

ADVANCENE™ EE-3916-AAH

Medium Density Polyethylene Resin

Overview:

ADVANCENE™ EE-3916-AAH is a hexene based medium density polyethylene classified as (PE80 - Natural), material with an optimum balance between flexibility and strength, produced with advanced gas phase PE process. Long-term stability is ensured by an optimized stabilization system.

Applications:

- MDPE pipe
- Conduit
- Single wall corrugated pipes.

Complies with:

- Europe EU 10/2011 followed by its amended.
- U.S. FDA 21 CFR 177.1520(c)3.1a
- ISO 9080 classified as 8 MPa material

Additives:

- Thermal Stabilizer

Physical Properties	Nominal Value (SI)	Test Method
Density	0.939 g/cm ³	ASTM D1505
Melt Index (190°C/21.6 kg)	16 g/10min	ASTM D1238, ISO 1133
Mechanical Properties	Nominal Value (SI)	Test Method
Tensile Strength at Yield	19 MPa	ASTM D638 ¹ , ISO 527
Tensile Strength at Break	28 MPa	
Tensile Elongation at Break	> 800 %	
Flexural Modulus – 2% Secant	690 MPa	ASTM D790B ¹ , ISO 178
Izod Impact Strength	210 J/m	ASTM D256
Thermal Properties	Nominal Value (SI)	Test Method
Brittleness Temperature	< -100 °C	ASTM D746
OIT (at 210°C)	> 20 min	ISO 11357-6
Pipe Properties	Nominal Value (SI)	Test Method
Designation	PE-80	ISO 12162
Minimum Required Strength	> 8 MPa	ISO 9080

Pipe Extrusion Conditions

The actual extrusion conditions will depend on the type of equipment used and the size and wall thickness of the pipe required. The following conditions should be used as a guide when starting up the extruder.

- Temperature setting from 200°C - 210°C.
- For normal extrusion conditions and applications, we suggest preheating and drying with a maximum preheating temperature of 90°C.

Notes:

1 Method B

Availability:

This product is supplied in 25 kg bags in secured pallets of 60 bags (1.500 MT net). It is also supplied in jumbo bags of 1000 kg capacity.

Storage:

The product should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product. More information on storage can be found on the Safety Information Sheet for this product.

Safety:

The product is not classified as a hazardous mixture.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

A Safety Information Sheet is available on request. Please contact your ETHYDCO representative for more details on various aspects of safety, recovery and disposal of the product.

Recycling:

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Related documents:

Most datasheets and statements are available on ETHYDCO website www.ethydc0-eg.com. If more information is required, please contact an ETHYDCO representative for information.

Disclaimer:

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or health care applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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