



ADVANCENE™ EE-3916-AAH

ETHYDCO - Medium Density Polyethylene

General Information

Product Description

ADVANCENE™ EE-3916-AAH is a hexene based medium density polyethylene classified as (PE80), 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.

Characteristics:

ADVANCENE™ EE-3916-AAH is recommended for pressure pipe systems in the applications field of drinking water, natural gas, pressure sewerage, relining, sea outfall and industrial, where flexibility and coil ability is of importance. It also shows excellent resistance to rapid crack propagation and slow crack growth. Thanks to the structure, which gives outstanding extrudability.

General

Additive	• Unspecified Stabilizer		
Features	• Crack Resistant	• Good Strength	• Medium Density
	• Good Flexibility	• Hexene Copolymer	• Recyclable Material
Uses	• Piping		
Agency Ratings	• ISO 12162 PE 80		
Processing Method	• Pipe Extrusion		

Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.939 g/cm ³	0.939 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	16 g/10 min	16 g/10 min	ASTM D1238 ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength			ASTM D638 ISO 527-2
Yield	2760 psi	19.0 MPa	
Break	4060 psi	28.0 MPa	
Tensile Elongation ² (Break)	> 800 %	> 800 %	ASTM D638 ISO 527-2
Flexural Modulus - 2% Secant ²	100000 psi	690 MPa	ASTM D790 ISO 178
Additional Information	Typical Value (English)	Typical Value (SI)	Test Method
Designation	PE-80	PE-80	ISO 12162
Minimum Required Strength	> 1160 psi	> 8.00 MPa	ISO 9080

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Cylinder Zone 1 Temp.	356 to 410 °F	180 to 210 °C
Cylinder Zone 3 Temp.	356 to 410 °F	180 to 210 °C
Cylinder Zone 5 Temp.	356 to 410 °F	180 to 210 °C
Melt Temperature	392 to 410 °F	200 to 210 °C
Die Temperature	392 to 410 °F	200 to 210 °C