

ADVANCENE™ EE-3916-AAH

Medium Density Polyethylene
ETHYDCO

Message:

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 extruability.

General Information			
Additive	Unspecified stabilizer		
Features	hexene comonomer		
	Recyclable materials		
	Good cracking resistance		
	Good strength		
	Good flexibility		
	Medium density		
Uses	Piping system		
Agency Ratings	ISO 12162 PE 80		
Processing Method	Pipeline extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	16	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	19.0	MPa	ASTM D638, ISO 527-2
Fracture	28.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation ¹ (Break)	> 800	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant ²	690	MPa	ASTM D790, ISO 178
Additional Information	Nominal Value	Unit	Test Method
Designation	PE-80		ISO 12162
Minimum Required Strength	> 8.00	MPa	ISO 9080
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 210	°C	
Cylinder Zone 3 Temp.	180 - 210	°C	
Cylinder Zone 5 Temp.	180 - 210	°C	
Melt Temperature	200 - 210	°C	
Die Temperature	200 - 210	°C	

NOTE

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| 1. | Method B |
| 2. | Method B |

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