

# ADVANCENE™ EE-5001-AAH

## High Density Polyethylene Resin

### Overview:

ADVANCENE™ EE-5001-AAH is a narrow molecular weight extrusion grade of high density polyethylene with hexene co-monomer and is intended for use in high tenacity monofilaments and stretch tape application.

### Applications:

- Ropes
- Nets.
- Woven applications
- Agricultural Fabrics
- Fruit and vegetable packaging
- Stretch tapes.

### Additives:

Thermal stabilizers

### Complies with:

- Europe EU 10/2011 followed by its amended.
- U.S. FDA 21 CFR 177.1520(c)3.1a

Physical Properties	Nominal Value (SI)	Test Method
Density	0.951 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	0.9 g/10min	ASTM D1238, ISO 1133
Mechanical Properties	Typical Value (SI)	Test Method
Tensile Strength at Yield	25.0 MPa	ASTM D638, ISO 527
Tensile Strength at Break	35.0 MPa	
Ultimate Tensile Strength	36.0 MPa	
Elongation at Yield	9.5 %	
Elongation at Break	970 %	
Flexural Modulus 1% Secant	1100 MPa	ASTM D790B, ISO 178
Flexural Modulus 2% Secant	950 MPa	
Durometer Hardness (Shore D)	59.0	ASTM D2240 <sup>1</sup> , ISO/IEC 17025:1999
Thermal Properties	Nominal Value (SI)	Test Method
Vicat Softening Temperature	126 °C	ASTM D1525, ISO 306

### Processing Conditions

- Screw speed = 50 – 70 rpm.
- Temperature setting from 210°C - 250°C.

**Notes:**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

**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](http://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 healthcare applications and we do not support their use for such applications**

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