

ADVANCENE™ EM-3405-UVH

Medium Density Polyethylene Resin

Overview :

ADVANCENE™ EM-3405-UVH Medium Density Polyethylene (MDPE) resin is a hexene copolymer with narrow molecular weight distribution and produced using advanced gas phase PE process. This resin is intended for use in rotational molding applications such as chemical tanks, storage containers and general UV stabilized rotomolding applications.

Main Characteristics :

- Rotomolding.
- Narrow molecular weight distribution.

Physical	Nominal Value (SI)	Test Method
Density	0.936 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	5 g/10min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance		ASTM D1693 ¹
50°C, 100% Igepal, F50	>1000 hr	
Mechanical	Nominal Value (SI)	Test Method
Tensile Strength		
Yield	16 MPa	ASTM D638,ISO 527
Break	24 MPa	
Tensile Elongation		
Break	900 %	ASTM D638,ISO 527
Flexural Modulus – 1% Secant	650 MPa	ASTM D638,ISO 527
Thermal	Nominal Value (SI)	Test Method
Brittleness Temperature	< -100 °C	ASTM D746, ISO-974 (E)

Notes :

¹ 1.9 mm specimen, slit

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 in 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.ethydco-eg.com. If more information is required, please contact a 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.

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.

ETHYDCO makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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