



ADVANCENE™ EM-3405-UVH

ETHYDCO - Medium Density Polyethylene

General Information

Product Description

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.

General

Additive	• UV Stabilizer
Features	• Copolymer • Hexene Copolymer • Medium Density • Narrow Molecular Weight Distribution • UV Stabilized
Uses	• Containers • Tanks
Agency Ratings	• NSF STD-61
Processing Method	• Rotational Molding

Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.938	0.936 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238 ISO 1133
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 0.0748 in (1.90 mm), 100% Igepal, F50	> 1000 hr	> 1000 hr	ASTM D1693
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength			ASTM D638 ISO 527-2
Yield	2320 psi	16.0 MPa	
Break	3480 psi	24.0 MPa	
Tensile Elongation (Break)	900 %	900 %	ASTM D638 ISO 527-2
Flexural Modulus - 1% Secant	94300 psi	650 MPa	ASTM D790 ISO 178
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	< -148 °F	< -100 °C	ASTM D746 ISO 974