

Equate EMDA-6147 HDPE Blow Molding Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

EMDA-6147 is a high density polyethylene copolymer resin designed for blow molding of large size containers. Its high molecular weight and broad molecular weight distribution with a balanced density provide excellent mold-ability, toughness and stress-cracking resistance. The molded articles exhibit good surface attributes. Applications: EMDA-6147 is suitable for blow molding of closed head shipping containers of up to 50 liter size, fuel tanks, drums, jerry cans and other similar parts. The molded parts have smooth surfaces that can be readily treated for high quality printing. The containers may be utilized for packaging a variety of aggressive materials such as industrial chemicals, latex paint, printing inks and adhesives. Food can also be packaged in the containers in line with conformity of the resin with food contact regulations. EMDA-6147 is also suitable for making non-pressure "gravity" pipes for drainage and sewage applications. Information provided by Equate

Order this product through the following link:

http://www.lookpolymers.com/polymer_Equate-EMDA-6147-HDPE-Blow-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D792
ESCR 100% Igepal®	1000 hour @Temperature 50.0 °C	1000 hour @Temperature 122 °F	ASTM D1693 B
Melt Flow	0.070 g/10 min @Load 2.16 kg	0.070 g/10 min @Load 4.76 lb	ASTM D1238
High Load Melt Index	9.0 g/10 min @Load 21.6 kg	9.0 g/10 min @Load 47.6 lb	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	>= 750 %	>= 750 %	ASTM D638
Flexural Modulus	1.18 GPa	171 ksi	ASTM D790
Izod Impact, Unnotched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	Equate Test Method
Crystallization Temperature	116 °C	241 °F	Equate Test Method
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Zone 1	204 °C	399 °F	
Zone 2	204 °C	399 °F	
Zone 3	204 °C	399 °F	
Zone 4	204 °C	399 °F	
Die Temperature	204 °C	399 °F	
Melt Temperature	210 °C	410 °F	
Head Temperature	204 °C	399 °F	

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