EQUATE PE EMDA-6147

High Density Polyethylene Copolymer

EQUATE Petrochemical Company KSCC

Message:

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 moldability, toughness and stress-cracking resistance. The molded articles exhibit good surface attributes.

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. Foodstuff 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.

General Information				
Features	Copolymer			
	Excellent Printability			
	Food Contact Acceptable			
	Good Moldability			
	Good Surface Finish			
	Good Toughness			
	High Density			
	High ESCR (Stress Crack Resist.) High Molecular Weight Wide Molecular Weight Distribution			
Uses	Drums			
	Fuel Tanks			
	Industrial Containers			
	Piping			
	Shipping Containers			
Agency Ratings	EU 90/128/EEC			
	FDA 21 CFR 177.1520			
Forms	Pellets			
Processing Method	Blow Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.952	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR)			ASTM D1238	
190°C/2.16 kg	0.070	g/10 min		
190°C/21.6 kg	9.0	g/10 min		
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	1000	hr	ASTM D1693B	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	26.0	MPa	
Break	35.0	МРа	
Tensile Elongation (Break)	> 750	%	ASTM D638
Flexural Modulus	1180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)	17.0	kJ/m²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Melting Temperature	131	°C	Internal Method
Peak Crystallization Temperature (DSC)	116	°C	Internal Method
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	204	°C	
Cylinder Zone 2 Temp.	204	°C	
Cylinder Zone 3 Temp.	204	°C	
Cylinder Zone 4 Temp.	204	°C	
Melt Temperature	210	°C	
Die Temperature	204	°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

