ADVANCENE™ EM-5333-AAH

High Density Polyethylene

ETHYDCO

Message:

ADVANCENE™ EM-5333-AAH HDPE Resin is a multipurpose polymer designed for high speed production of blow molded containers used to package household industrial chemicals (e.g detergents, bleach, fabric softeners), toiletries and cosmetics (e.g shampoos, creams, lotions, etc.), health and medical aids, and food products. In addition, it can be blow molded into other thin-walled parts and houseware items, and can be extruded into profiles.
Main Characteristics:
Excellent environmental stress crack resistance and rigidity.
High impact strength.
Moderate swell.
High melt strength.

General Information	
Features	High Melt Strength
	High ESCR (Stress Cracking Resistance)
	High density
	Impact resistance, high
Uses	Cosmetic Packaging
	Packaging
	Thin wall parts
	Household goods
	Container
	Food packaging
	Profile
	Medical packaging
Processing Method	Blow molding
	Profile extrusion molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.953	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
190°C/2.16 kg	0.38	g/10 min	ASTM D1238, ISO 1133
190°C/21.6 kg	33	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	80.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638, ISO 527-2
Yield	26.9	MPa	ASTM D638, ISO 527-2

Fracture	31.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	7.0	%	ASTM D638, ISO 527-2
Fracture	1000	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	1000	MPa	ASTM D790B, ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength			
-- [1]	168	kJ/m^2	ASTM D1822
--	168	kJ/m^2	ISO 8256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.0	°C	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -76.0	°C	ASTM D746, ISO 974
Vicat Softening Temperature	129	°C	ASTM D1525, ISO 306
Peak Melting Temperature	131	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	118	°C	ASTM D3418, ISO 3146
NOTE			
1.	Type S		

Recommended distributors for this material

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