

ADVANCENE™ EM-5822-AAH

High Density Polyethylene
ETHYDCO

Message:

ADVANCENE™ EM-5822-AAH HDPE Resin is a multipurpose polymer designed tor production of medium to large blow molded containers and parts.
Main Characteristics:
Good environmental stress crack resistance and rigidity.
High impact strength.
Moderate swell.
High melt strength.

General Information			
Features	Good ESCR (Stress Crack Resist.)		
	Good Rigidity		
	High Melt Strength		
	High density		
	Impact resistance, high		
Uses	Container		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
190°C/2.16 kg	0.17	g/10 min	ASTM D1238, ISO 1133
190°C/21.6 kg	22	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	47.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	27.6	MPa	ASTM D638, ISO 527-2
Fracture	14.5	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	9.0	%	ASTM D638, ISO 527-2
Fracture	940	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	924	MPa	ASTM D790B, ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.0	°C	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -77.0	°C	ASTM D746, ISO 974
Vicat Softening Temperature	131	°C	ASTM D1525, ISO 306

Peak Melting Temperature	139	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	113	°C	ASTM D3418, ISO 3146

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