

ADVANCENE™ EM-4810-AAH

High Density (HMW) Polyethylene
ETHYDCO

Message:

ADVANCENE™ EM-4810-AAH HDPE Resin is a polymer with broad molecular weight distribution and high molecular weight. This product provides an excellent combination of extrudability and parison stability, which contribute to uniform wall thickness in large parts.

ADVANCENE™ EM-4810-AAH HDPE Resin is ideal for blow molding containers of > 80 liters closed head shipping containers and other similar pans. The broad distribution also provides outstanding environmental stress crack resistance (ESCR) at a good rigidity. Because of these characteristics, a wide variety of products, such as industrial chemicals, latex paints, printing inks, foodstuffs, adhesives and other chemical specialties may be packaged in containers produced from this resin. The smooth surface of molded parts is readily treated and printed for high quality applications.

Main Characteristics:

Outstanding environmental stress crack resistance.

Excellent parison melt strength/low sag.

Good extrudability/processability.

Good rigidity.

General Information			
Features	Good Printability		
	Good Rigidity		
	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	High density		
	Workability, good		
	Wide molecular weight distribution		
Uses	Packaging		
	Container		
Processing Method	Blow molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	> 1500	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	22.8	MPa	ASTM D638, ISO 527-2
Fracture	36.5	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2

Yield	6.0	%	ASTM D638, ISO 527-2
Fracture	900	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	855	MPa	ASTM D790B, ISO 178
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			
-- ¹	462	kJ/m ²	ASTM D1822
--	462	kJ/m ²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	66.0	°C	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -76.0	°C	ASTM D746, ISO 974
Vicat Softening Temperature	127	°C	ASTM D1525, ISO 306
Peak Melting Temperature	130	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	114	°C	ASTM D3418, ISO 3146
NOTE			
1.	Type S		

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