# ADVANCENE™ EM-6308-UV

### High Density Polyethylene

#### ETHYDCO

#### Message:

ADVANCENE<sup>™</sup> EM-6308-UV High Density Polyethylene (HDPE) Resin is a narrow molecular weight distribution high density homopolymer designed to offer excellent stiffness, low warpage, good/acceptable toughness, and good moldability. This resin is ideally suited for injection molded crates, cases, trays; tote bins, and other objects requiring high rigidity.

Main Characteristics:

Excellent stiffness/modulus.

Excellent warp resistance.

Molded parts have high gloss, low odor.

For injection molded crates, cases, totes, and other parts needing high modulus.

General Information			
Features	Low warpage		
	Rigidity, high		
	Rigidity, high		
	Highlight		
	High density		
	Homopolymer		
	Bending resistance		
	Good formability		
	The smell is low to none		
	Good toughness		
	Narrow molecular weight distributi	on	
Uses	Tools/Parts Box		
	Loading box		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.963	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
190°C/2.16 kg	8.3	g/10 min	ASTM D1238, ISO 1133
190°C/21.6 kg	180	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	2.00	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	31.0	MPa	ASTM D638, ISO 527-2
Fracture	17.9	MPa	ASTM D638, ISO 527-2

Tensile Elongation			ASTM D638, ISO 527-2
Yield	6.0	%	ASTM D638, ISO 527-2
Fracture	350	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	1410	MPa	ASTM D790B, ISO 178
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			
1	168	kJ/m²	ASTM D1822
	168	kJ/m²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MDa (Juanua alad)	04.0	00	
MPa, Unannealed)	84.0	Ĵ	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -76.0	ະ ເ	ASTM D648, ISO 75-2/B ASTM D746, ISO 974
Brittleness Temperature Vicat Softening Temperature	<ul><li>&lt; -76.0</li><li>131</li></ul>	°C ℃	ASTM D648, ISO 75-2/B ASTM D746, ISO 974 ASTM D1525, ISO 306
MPa, Unannealed)         Brittleness Temperature         Vicat Softening Temperature         Peak Melting Temperature	84.0       < -76.0	°C °C °C	ASTM D648, ISO 75-2/B ASTM D746, ISO 974 ASTM D1525, ISO 306 ASTM D3418, ISO 3146
MPa, Onannealed)         Brittleness Temperature         Vicat Softening Temperature         Peak Melting Temperature         Peak Crystallization Temperature (DSC)	<ul> <li>84.0</li> <li>&lt; -76.0</li> <li>131</li> <li>133</li> <li>120</li> </ul>	°C °C °C	ASTM D648, ISO 75-2/B ASTM D746, ISO 974 ASTM D1525, ISO 306 ASTM D3418, ISO 3146 ASTM D3418, ISO 3146
Brittleness Temperature Vicat Softening Temperature Peak Melting Temperature Peak Crystallization Temperature (DSC) Extrusion	84.0       < -76.0	°C °C °C Unit	ASTM D648, ISO 75-2/B ASTM D746, ISO 974 ASTM D1525, ISO 306 ASTM D3418, ISO 3146 ASTM D3418, ISO 3146
MPa, Onannealed)         Brittleness Temperature         Vicat Softening Temperature         Peak Melting Temperature         Peak Crystallization Temperature (DSC)         Extrusion         Melt Temperature	84.0       < -76.0	°C °C °C ℃ Unit	ASTM D648, ISO 75-2/B ASTM D746, ISO 974 ASTM D1525, ISO 306 ASTM D3418, ISO 3146 ASTM D3418, ISO 3146
MPa, Onannealed)         Brittleness Temperature         Vicat Softening Temperature         Peak Melting Temperature         Peak Crystallization Temperature (DSC)         Extrusion         Melt Temperature         NOTE	84.0 < -76.0 131 133 120 Nominal Value 260	°C °C °C °C ℃ Unit	ASTM D648, ISO 75-2/B ASTM D746, ISO 974 ASTM D1525, ISO 306 ASTM D3418, ISO 3146 ASTM D3418, ISO 3146

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