

ADVANCENE™ EM-5420-AAH

High Density Polyethylene
ETHYDCO

Message:

ADVANCENE™ EM-5420-AAH High Density Polyethylene (HDPE) Resin is produced via advanced gas phase PE process and is intended for use in a broad range of injection molding applications such as housewares, toys, food containers and pails. This resin has been designed to provide an excellent balance of toughness, environmental stress crack resistance and processability.

Main Charactenstics :

For injection molded housewares, toys, food containers and pails.

Excellent balance of toughness, stress crack resistance and processability.

Hexene High Density Resin.

Very narrow molecular weight distribution.

General Information			
Features	High density		
	hexene comonomer		
	Narrow molecular weight distribution		
Uses	Household goods		
	Food container		
	Barrel		
	Toys		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.954	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238, ISO 1133
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	3.00	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	28.3	MPa	ASTM D638, ISO 527-2
Fracture	13.8	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	7.0	%	ASTM D638, ISO 527-2
Fracture	250	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	1150	MPa	ASTM D790B, ISO 178
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			
-- ¹	42.0	kJ/m ²	ASTM D1822

--	42.0	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	127	°C	ASTM D1525, ISO 306
Peak Melting Temperature	130	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	117	°C	ASTM D3418, ISO 3146
NOTE			
1.	Type S		

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