ADVANCENE™ EM-2420-AAB

Linear Low Density Polyethylene

ETHYDCO

Message:

ADVANCENE™ EM-2420-AAB Linear Low Density Polyethylene (LLDPE) Resin is produced using advanced gas phase PE process and is intended for use in general purpose injection molding applications. This resin has been designed to have excellent impact strength, rigidity, environmental stress crack resistance and processability.
Main Charactelistics :
Injection molding.
General purpose applications.
Excellent low temperature impact strength, rigidity, stress crack resistance and processability.
Very narrow molecular weight distribution.

General Information			
Features	Excellent Processability		
	Low density		
	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	Impact resistance, high		
	Low temperature impact resistance		
	General		
	Narrow molecular weight distribution		
Uses	General		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.924	g/cm³	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)	20.0	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638, ISO 527-2
Yield	11.7	MPa	ASTM D638, ISO 527-2
Fracture	7.60	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	3.0	%	ASTM D638, ISO 527-2
Fracture	60	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	386	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 MPa, Unannealed)	42.8	°C	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -76.1	°C	ASTM D746, ISO 974
Vicat Softening Temperature	93.9	°C	ASTM D1525, ISO 306
Peak Melting Temperature	123	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	108	°C	ASTM D3418, ISO 3146

NOTE			
1.	Type S		

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