ADVANCENE™ EM-5204-UVH

High Density Polyethylene

ETHYDCO

Message:

ADVANCENE[™] EM-5204-UVH High Density Polyethylene (HDPE) Resin is produced via advanced gas phase PE process and is intended for use in injection molding applications such as caps & closures, pails, industrial parts and other shipping containers. This resin has been designed to provide excellent processability for molders and to meet the rigorous performance characteristics of applications requiring stackability, environmental stress crack resistance and impact strength. This resin is also suitable for cast flm extrusion processing.

Main Characteristics:

For injection molded pails, industrial parts and other shipping containers.

For cast film extrusion.

Hexene High Density Resin.

Excellent impact strength, stress crack resistance and processability. Very narrow molecular weight distribution.

General Information				
Features	Excellent Processability			
	High ESCR (Stress Cracking Resistance)			
	High density			
	hexene comonomer			
	Impact resistance, high			
	Narrow molecular weight distribution			
Uses	Industrial components			
	Shield			
	cast film			
	Barrel			
	Shell			
	Shipping container			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a			
	European 2002/72/EC			
Processing Method	cast film			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.952	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (190°C/2.16				
kg)	4.4	g/10 min	ASTM D1238, ISO 1133	
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	22.0	hr	ASTM D1693	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore D)	59		ASTM D2240	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638, ISO 527-2
Yield	26.9	MPa	ASTM D638, ISO 527-2
Fracture	31.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	9.0	%	ASTM D638, ISO 527-2
Fracture	1200	%	ASTM D638, ISO 527-2
Flexural Modulus - 2% Secant	1100	MPa	ASTM D790B, ISO 178
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			
1	84.1	kJ/m²	ASTM D1822
	84.1	kJ/m²	ISO 8256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	72.0	°C	ASTM D648, ISO 75-2/B
Brittleness Temperature	< -76.0	°C	ASTM D746, ISO 974
Vicat Softening Temperature	129	°C	ASTM D1525, ISO 306
Peak Melting Temperature	131	°C	ASTM D3418, ISO 3146
Peak Crystallization Temperature (DSC)	119	°C	ASTM D3418, ISO 3146
NOTE			
1.	Туре S		

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