InnoPlus HD3001C

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD3000C and HD3001C are high density polyethylene which are specially designed for beverage caps. Both grades have excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water. They show good processability in either injection molding or compression molding machine.
Additive
InnoPlus HD3000C with slip agent.
InnoPlus HD3001C without slip agent.
Typical Application: Beverage caps for mineral, stilled, sparkling water and carbonated soft drink.

General Information	
Features	Food Contact Acceptable Good Organoleptic Properties Good Processability Low Odor Transfer Low Taste Transfer
Uses	Caps Closures
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Compression Molding Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	24.0	hr	ASTM D1693B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield	25.5	MPa	
Break	31.4	MPa	
Tensile Elongation (Break)	800	%	ASTM D638
Apparent Bending Modulus	775	MPa	ASTM D747
Flexural Modulus	1110	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact [1]	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ASTM D1525 [2]
Peak Melting Temperature	130	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Compression Molding Temperature	160 to 180	°C	
Injection	Nominal Value	Unit	
Rear Temperature	170 to 200	°C	
Middle Temperature	170 to 200	°C	
Front Temperature	170 to 200	°C	
NOTE			
1.	Partial Break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

Recommended distributors for this material

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