

InnoPlus HD6000C

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD6000C and HD6001C are high density polyethylene with outstanding environmental stress cracking resistance (ESCR). Thanks to stress cracking resistance outperforming, these grades are suitable for beverage caps and closures for new caps design. They show good processability in either injection molding or compression molding machine.

Additive

InnoPlus HD6000C with slip agent.

InnoPlus HD6001C without slip agent.

Typical Application: Beverage caps for mineral, stiller, sparkling water and carbonated soft drink.

General Information			
Additive	Slip		
Features	Food Contact Acceptable		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	Slip		
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	0.957	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	390	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	31.4	MPa	
Break	38.2	MPa	
Tensile Elongation (Break)	1000	%	ASTM D638
Apparent Bending Modulus	1080	MPa	ASTM D747
Flexural Modulus	1370	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ¹	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525 ²
Peak Melting Temperature	132	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Compression Molding Temperature	160 to 190	°C	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 to 215	°C	
NOTE			
1.	Partial Break		
2.	Rate A (50°C/h), Loading 1 (10 N)		

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