

InnoPlus HD3502C

High Density Polyethylene

PTT Global Chemical Public Company Limited

Message:

InnoPlus HD3502C are high density polyethylene with outstanding environmental stress cracking resistance (ESCR) and easy processing. With distinguishing stress cracking resistance, this grade is suitable for beverage caps and closures for new caps design.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Compliance of Food Exposure		
Uses	Shield		
	Shell		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (25% Igepal, F50)	490	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	23.5	MPa	ASTM D638
Fracture	26.5	MPa	ASTM D638
Tensile Elongation (Break)	910	%	ASTM D638
Apparent Bending Modulus	794	MPa	ASTM D747
Flexural Modulus	902	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	120	°C	ASTM D1525 ¹
Peak Melting Temperature	130	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Compression Molding Temperature	160 - 185	°C	
Injection	Nominal Value	Unit	

Rear Temperature	180 - 210	°C
Middle Temperature	180 - 210	°C
Front Temperature	180 - 210	°C

NOTE

1.
- 速率 A (50°C/h), 压 力1 (10N)

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