

Premier HD06H45U

High Density Polyethylene

Premier Polymers, LLC.

Message:

Premier HD06H45U is a high molecular weight high density polyethylene copolymer suitable for blow molding applications which require high melt, impact strength, chemical resistance, and ESCR. Contains UV protection additive. Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Melt Strength		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	< 0.10	g/10 min	
190°C/21.6 kg	6.0	g/10 min	
Environmental Stress-Cracking Resistance (100% Igepal)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.8	MPa	ASTM D638
Tensile Elongation (Break)	1100	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790

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