

# Premier HD00354

High Density Polyethylene

Premier Polymers, LLC.

## Message:

Premier HD00354 is a high density polyethylene designed for blow molding applications requiring high stiffness and stress crack resistance. Also usable as a sheet extrusion and thermoforming resin. 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	Food Contact Acceptable
	High Density
	High ESCR (Stress Crack Resist.)
	High Stiffness
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Blow Molding
	Sheet Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			
10% Igepal, F50	35.0	hr	ASTM D1693B
100% Igepal, F50	37.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 50.8 mm)	27.6	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 50.8 mm)	> 550	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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