

# DOW™ HDPE LP 8000

High Density Polyethylene Resin

The Dow Chemical Company

## Message:

HDPE LP 8000 is a High Density Polyethylene Resin specially designed to produce large blow molded parts. This resin offers good processability and excellent parison melt strength, which contributes to uniform wall thickness in large parts. Containers molded with this resin exhibit excellent environmental stress cracking resistance (ESCR), Impact Resistance and Top Load (stackability).

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.2a

Europe Commission Regulation (EU) No 10/2011

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	7.0	g/10 min	
190°C/5.0 kg	0.22	g/10 min	
Environmental Stress-Cracking Resistance (100°C, 2.00 mm, 100% Igepal)	> 2000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	20.6	MPa	
Break	32.4	MPa	
Tensile Elongation (Break)	660	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	123	°C	ASTM D1525
Oxidation Induction Time (200°C)	> 60	min	ASTM D3895
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	165 to 205	°C	
Die Temperature	200 to 215	°C	

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Recommended distributors for this material

# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

