

## HD58-46

### High Density Polyethylene

**HD58-46** is a HDPE blow molding resin designed for high performance packaging applications. Containers made from **HD58-46** exhibit a unique combination of stiffness and environmental stress cracking resistance. These properties, coupled with excellent processability on both continuous and intermittent equipment, afford significant lightweighting and/or fast-cycling potential in many applications. **HD58-46** complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
RESIN			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	0.46
Density	D1505	g/cm <sup>3</sup>	0.957
Env. Stress Cracking Resistance	D1693	hr	>1000
MOLDED SPECIMEN			
Flexural Modulus (1% Secant)	D790A	psi	210k
Tensile Strength @ Yield	D638	psi	4400
Elongation @ Break	D638	%	1100
Brittleness Temperature	D746	°F	<-105
Tensile Impact Strength	D1822	ft-lb/in <sup>2</sup>	120



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