

Producer: Republic Plaza / Singapore

HDD4046B

Product Overview:

HDD4046B is a multipurpose polymer designed for high speed production of blow molded containers used to package household industrial chemicals, such as laundry detergent, health and medicinal aids as well as agricultural and food products. The product is specifically designed to provide excellent processing in all extrusion blow molding equipment.

Additive :

Antiblock < No

Slip < No

Processing Aid < No

Main Characteristics :

- Excellent Processability
- High Melt Strength
- Excellent Environment Stress-Cracking Resistance

PROPERTIES	TYPICAL VALUE	UNIT	TEST METHOD
Density	0.946	g/cm ³	ASTM D792
Melt Flow Index (190 °C, 2.16 kg)	0.40	g / 10 min	ASTM D1238
Environmental Stress-Crack Resistance 100 % Igepal, 122°F (50°C), f50	400	hr	ASTM D1693
Tensile Strength at Yield / Break	3,450 / 2,400	psi	ASTM D638
Tensile Elongation at Yield / Break	11 / 770	%	ASTM D638
Flexural Modulus - 1% Secant	148,000 (1020)	psi (Mpa)	ASTM D790B
Flexural Modulus - 2% Secant	118,000 (814)	psi (Mpa)	ASTM D790B
Flexural Modulus - Tangent	167,000 (1150)	psi (Mpa)	ASTM D790B
Tensile Impact Strength	72.0	ft-lb/in ²	ASTM D1822
Durometer Hardness (Shore D)	62		ASTM D2240
Deflection Temperature Under Load 66 psi (0.45 Mpa), Unannealed	145 (62.8)	°F (°C)	ASTM D648
Brittleness Temperature	<-105 (<-76.1)	°F (°C)	ASTM D746
Vicat Softening Temperature	250 (121)	°F (°C)	ASTM D1525
Melting Temperature (DSC)	259 (126)	°F (°C)	Dow Method
Peak Crystallization Temperature (DSC)	226 (108)	°F (°C)	Dow Method

* These are typical properties : not to be construed as specification. Users should confirm results by their own tests.

* Complies potential food contact application (e.g. FDA, EU, HPFB)