

HPB-0354 High Density Polyethylene

HPB-0354 is a **certified prime** grade Phillips Process BLOW MOLDING copolymer designed to meet end-use requirements of containers for packaging of Household Industrial Chemicals (HIC). **HPB-0354** features medium swell, easy and consistent processability in conventional continuous or intermittent extrusion equipment, and excellent balance of bottle ESCR, Impact strength and Stiffness. Applications include medium size containers for detergents, bleach, antifreeze, motor oil and ice chests. **HPB-0354** recommended processing temperature is 160 to 180°C., with mold at 10 to 30°C. **HPB-0354** 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.

Typical Properties

PROPERTIES*	ASTM TEST	UNIT ENGLISH (METRIC)	NOMINAL VALUES
RESIN			
Melt Index	D 1238E	gr./10 min	0.35
Density	D 1505	gr./cm ³	0.954
MOLDED SPECIMEN*			
Tensile Strength @Yield ²	D 638	psi (MPa)	3900 (27)
Flexural Modulus ¹	D 790	psi (MPa)	170000 (1170)
Ultimate Elongation ²	D 638	%	>700
Tensile Impact	D 1822	ft.lb/in. ² (kJ/m ²)	98 (205)
ESCR ³ (F50)	D 1693B	hrs.	50
Low temp. brittleness	D 746	°C.	<-90
Vicat softening point	D 1525	°C.	127
HDT @ 0.46 N/mm ²	D 648	°C.	74

TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS.

- * - Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.
- 1 - 1% secant @ 1.3 mm/min. speed.
- 2 - @ 50 mm/min.
- 3 - 100% Igepal, notched Bent Strip, 1.75 mm thick, 50°C.

THIS PRODUCT DATA SHEET EFFECTIVE JANUARY 2001 SUPERSEDES ALL DATA PREVIOUSLY PUBLISHED

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