

## HPB-0354A High Density Polyethylene

MELT - 0.35

DENSITY - 0.954

**HPB-0354A** 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-0354A** contains antistatic and features medium swell, easy consistent processability in conventional continuous or intermittent extrusion equipment, and excellent balance of bottle ESCR, impact strength and stiffness. **HPB-0354A** recommended processing temperature is 160 to 180°C, with mold at 10 to 30°C. Mold temperature is 50.0 to 86.0 °F and Melt temperature is 320 to 356 °F.

### Features:

- Detergent resistant
- Good chemical resistance
- Good processability
- High density
- High ESCR
- High impact resistance
- High stiffness
- Antistatic

### Typical Applications:

- Medium size containers for detergents, bleach, antifreeze, and motor oil
- Ice chests

PROPERTIES	ASTM	UNIT	VALUES
<b>PHYSICAL</b>			
Density	D1505	g/cm <sup>3</sup>	0.954
Melt Flow Rate (190°C, 2.16kg)	D1238	g/10 min	0.35
Env. Stress Cracking Resistance (122°F, F50)	D1693	hr	35.0
<b>MECHANICAL</b>			
Tensile Strength (Yield) Comp. Mold	D638	psi	3900
Tensile Elongation (Break) Comp. Mold	D638	%	700
Flexural Modulus - 1% Secant Comp. Mold	D790	psi	170k
Tensile Impact Strength (Comp. Mold)	D1822	ft-lb/in <sup>2</sup>	98.0
HDT	D648	°F	165
Brittleness Temperature	D746	°F	-130
Vicat Softening Temperature	D1525	°F	261

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