

MELT - 7.0

DENSITY - 0.952

HI-752 is a certified prime copolymer designed for INJECTION MOLDING applications requiring good balance of mechanical properties. **HI-752** is not UV stabilized. Recommended processing temperature is 210 to 250°C with mold at 20 to 40°C. **HI-752** 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.

Features:

- Good dimensional stability
- Good impact resistance
- Good processability, stiffness, toughness
- High density
- Low temperature impact resistance
- Warp resistant

Typical Applications:

- Pails
- Waste bins
- Bottle and fish crates
- Tote bins
- Fruit and vegetable trays
- Handling materials where resistance to low temperature impact toughness is required

PROPERTIES	ASTM	UNIT	VALUES
PHYSICAL			
Density	D1505	g/cm ³	0.952
Melt Flow Rate (190°C, 2.16kg)	D1238	g/10 min	7.0
ESCR (122°F, 0.0689 in., 100 lgepal, Comp Mold F50) Notched bent strip	D1693B	hr	10
MECHANICAL (Compression Molded)			
Tensile Strength (Yield, 2.0 in/min)	D638	psi	4000
Tensile Elongation (Break, 2.0 in/min)	D638	%	1000
Flexural Modulus- 1% Secant (0.051 in/min)	D790	psi	160k
Tensile Impact Strength- Comp Molded	D1822	ft-lb/in ²	27
HDT (66psi, Unannealed)	D648	°F	167
Brittleness Temperature	D746	°F	-130
Vicat Softening Temperature	D1525	°F	264