

MELT - 8.0

DENSITY - 0.964

HI-864U is a certified prime grade UV STABILIZED resin designed for INJECTION MOLDING of large sized industrial applications requiring superior Toughness and high Stiffness. **HI-864U** processing temperature is 220° to 250°C with mold at 20° to 40°C. **HI-864U** 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 toughness, UV resistance
- High rigidity, stiffness
- Narrow molecular weight distribution
- Warp resistant

Typical Applications:

- Industrial pails
- Sport articles
- Bottle and fish crates
- Tote bins
- Fruit and vegetable trays
- Structural foam

PROPERTIES	ASTM	UNIT	VALUES
PHYSICAL			
Density	D1505	g/cm ³	0.964
Melt Flow Rate (190°C, 2.16kg)	D1238	g/10 min	8.0
ESCR (122°F, 0.0689 in., 100 lgepal, Comp Mold F50) Notched bent strip	D1693	hr	3.0
MECHANICAL			
Tensile Strength (Yield, 2.0 in/min) Comp Molded	D638	psi	4640
Tensile Elongation (Break, 2.0 in/min) Comp Molded	D638	%	600
Flexural Modulus- 1% Secant (0.051 in/min) Comp Molded	D790	psi	225k
Notched Izod Impact	D256	ft-lb/in	1.0
HDT (66psi, Unannealed)	D648	°F	172
Brittleness Temperature	D746	°F	<(-103)
Vicat Softening Temperature	D1525	°F	257