

## LLHR-635U Medium Density Polyethylene

MELT - 6.0

DENSITY - 0.935

**LLHR-635U** is a certified prime grade UV stabilized Ethylene-Hexene Copolymer designed for high performance outdoor exposure Rotomolded applications. **LLHR-635U** is melt compounded for uniform dispersion of additives and UV stabilizer. **LLHR-635U** is supplied as a consistent 35 mesh powder ground from pellets. **LLHR-635U** complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) + 3.2(a) and most international regulations concerning the use of Polyethylene in contact with food.

### Features:

- Good impact resistance
- Good moldability
- Good UV resistance
- High ESCR (Stress Crack Resist.)
- Low temperature impact resistance
- Good stiffness
- Good toughness

### Typical Applications:

- Small storage and spray tanks up to 100 gal.
- Vegetable growing trays
- Liners for containers and automotive doors
- Tote bins
- Light globes
- Toys

PROPERTIES	ASTM	UNIT	VALUES
<b>PHYSICAL</b>			
Density	D1505	g/cm <sup>3</sup>	0.935
Melt Flow Rate (190°C, 2.16kg)	D1238	g/10 min	6.0
Env. Stress Cracking Resistance (122°F, 0.0689 in, 100% Igepal, compression molded, F50) Notched Bent Strip	D1693	hr	270
<b>MECHANICAL (Compression Mold)</b>			
Tensile Strength (Yield, 2.0 in/min)	D638	psi	2610
Tensile Elongation (Break, 2.0 in/min)	D638	%	17
Flexural Modulus - 1% Secant (0.051 in/min)	D790	psi	102k
Low Temperature Impact (-40 °F)	Internal	ft-lb	58.3
HDT (66psi, Unannealed)	D648	°F	138
Vicat Softening Temperature	D1525	°F	234