

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 |
|---|----------|-------------------|--------|
| PHYSICAL | | | |
| Density | D1505 | g/cm ³ | 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 |
| MECHANICAL (Compression Mold) | | | |
| 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 |