

# CERTENE™ LLHR-635U

Medium Density Polyethylene

Muehlstein

Message:

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 features very good moldability, outstanding long-term outdoor exposure, and superior combination of ESCR, low temperature impact strength, toughness and stiffness. LLHR-635U applications include small storage and spray tanks up to 100 gal., vegetable growing trays, liners for containers and automotive doors, tote bins, light globes, and toys. LLHR-635UP 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 articles.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Moldability		
	Good Stiffness		
	Good Toughness		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	Low Temperature Impact Resistance		
Uses	Liners		
	Support Trays		
	Tanks		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance <sup>1</sup> (50°C, 1.75 mm, 100% Igepal, Compression Molded, F50)	270	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength <sup>2</sup> (Yield, Compression Molded)	18.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, Compression Molded)	17	%	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup> (Compression Molded)	700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Low Temperature Impact (-40°C)	79.0	J	Internal Method
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	59.0	°C	ASTM D648
Vicat Softening Temperature	112	°C	ASTM D1525
NOTE			
1.	Notched bent strip		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		

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#### Recommended distributors for this material

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