CERTENE™ HI-864U

High Density Polyethylene

Muehlstein

Message:

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 features very narrow molecular weight distribution, easy processability, good Impact strength, very high Rigidity, excellent dimensional stability, and high Warpage resistance. HI-864U suggested applications include bottle and fish crates, fruit and vegetable trays, industrial pails, sport articles, cases, tote bins, and structural foam. 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.

General Information	
Additive	UV Stabilizer
Features	Food Contact Acceptable Good Dimensional Stability Good Impact Resistance Good Processability Good Toughness Good UV Resistance High Rigidity High Stiffness Narrow Molecular Weight Distribution Warp Resistant
Uses	Bottles Crates Food Service Applications Industrial Applications Pails Sporting Goods Structural Foam
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a FDA 21 CFR 177.1520(c) 3.2a
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.964	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238

Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	3.00	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, Compression Molded)	32.0	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Compression Molded)	1550	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, Compression Molded)	54	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	78.0	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

Recommended distributors for this material

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