CERTENE□?HI-954

High Density Polyethylene

Muehlstein

Message:

HI-954 is a certified prime copolymer designed for INJECTION MOLDING applications requiring good balance of mechanical properties. HI-954 features easy-processability, superior stiffness, exceptional impact strength, high warpage resistance and excellent dimensional stability. HI-954 is especially suitable for pails, crates, tote and storage bins. HI-954 is not UV stabilized. Recommended processing temperature is 210 to 250°C. with mold @ 20 to 40°C.. HI-954 complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Good dimensional stability Rigidity, high Copolymer Bending resistance Impact resistance, high Workability, good Compliance of Food Exposure		
Uses	Tools/Parts Box Container Barrel Loading box		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.954	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1] (50°C, 1.75 mm, 100% Igepal, Compression Molded, F50)	> 10.0	hr	ASTM D1693B
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Compression Molded)	28.0	MPa	ASTM D638
Tensile Elongation [3] (Break, Compression Molded)	> 1200	%	ASTM D638
Flexural Modulus - 1% Secant [4] (Compression Molded)	1230	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength	57.0	kJ/m²	ASTM D1822

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	129	°C	ASTM D1525

Additional Information
Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.

Injection	Nominal Value	Unit
Processing (Melt) Temp	210 - 250	°C
Mold Temperature	20.0 - 40.0	°C

NOTE	
1.	Notched Bent Strip
2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min

Recommended distributors for this material

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