CERTENE™ HI-7053

High Density Polyethylene

Muehlstein

Message:

HI-7053 is a certified prime grade designed for INJECTION MOLDING of multi-cavity thin-wall food containers. HI-7053 features a NARROW molecular weight distribution offering excellent processability, good impact strength, good dimensional stability and good warpage resistance. HI-7053 applications include yogurt cups, and frozen food containers. HI-7053 recommended processing temperature is 210 to 230°C.with mold @ 20 to 40°C. HI-7053 complies with FDR regulation 21CFR 177.1520(c) 3.1a and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Food Contact Acceptable Good Dimensional Stability Good Impact Resistance Good Processability Narrow Molecular Weight Distribution Warp Resistant		
Uses	Food Containers Thin-walled Containers		
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	0.953	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	70	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus - 2% Secant [1]	1030	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [2]	84.1	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load [3] (0.45 MPa, Unannealed)	69.0	°C	ASTM D648
Vicat Softening Temperature [4]	122	°C	ASTM D1525
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	20.0 to 40.0	°C	

NOTE	
1.	Compression molded plaque according to ASTM D4976.
2.	Compression molded plaque according to ASTM D4976.
3.	Compression molded plaque according to ASTM D4976.
4.	Compression molded plaque according to ASTM D4976.

Recommended distributors for this material

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