

# SureSpec HD53-7000

High Density Polyethylene

Genesis Polymers

## Message:

HD53-7000 is a certified prime grade designed for injection molding of multi-cavity thin-wall food containers. HD53-7000 features a NARROW molecular weight distribution offering excellent processability, good impact strength, good dimensional stability and good warpage resistance. HD53-7000 recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C. HD53-7000 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	Good dimensional stability		
	High density		
	Bending resistance		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
	Narrow molecular weight distribution		
Uses	Thin wall container		
	Food container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	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 <sup>1</sup> (Yield)	20.7	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10	%	ASTM D638
Flexural Modulus - 2% Secant	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	84.1	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	69.0	°C	ASTM D648
Additional Information			
Test Made on injection molded Type 1 tension test specimen according to ASTM D2146			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 230	°C	
Mold Temperature	20.0 - 40.0	°C	

## NOTE

- |    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |

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## Recommended distributors for this material

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