

# SureSpec HD53-5000

High Density Polyethylene

Genesis Polymers

Message:

HD53-5000 is a certified prime grade designed for injection molding of multi-cavity thin-wall food containers. HD53-5000 offers a balance of excellent processability, good impact strength, good stiffness and toughness. HD53-5000 complies with FDA regulation 21CFR 177.1520(c) 3.2a.

General Information			
Features	Rigid, good		
	High density		
	Impact resistance, good		
	Workability, good		
	Good toughness		
	Compliance of Food Exposure		
Uses	Thin wall container		
	Food container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	23.4	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	15	%	ASTM D638
Flexural Modulus <sup>3</sup>	1000	MPa	ASTM D790
Additional Information			
Test Made on injection molded Type 1 tension test specimen according to ASTM D2146			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	13 mm/min		

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