

SureSpec HD53-3000

High Density Polyethylene

Genesis Polymers

Message:

HD53-3000 is a Hexene copolymer certified prime grade designed for injection molding General Purpose thin-wall applications requiring good balance of properties. HD53-3000 features high flow, fast cycling, easy processability, good impact strength and dimensional stability. HD53-3000 recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C. HD53-3000 complies with FDA regulation 21CFR 177.1520(c) 3.1a + 3.2a and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Copolymer		
	Fast Molding Cycle		
	Food Contact Acceptable		
	General Purpose		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	Hexene Comonomer		
	High Density		
Uses	High Flow		
Uses	General Purpose		
	Thin-walled Parts		
Agency Ratings			
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	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ¹	< 10.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	23.4	MPa	ASTM D638
Tensile Elongation ³ (Break)	200	%	ASTM D638
Flexural Modulus ⁴	1000	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.0	°C	ASTM D648

Brittleness Temperature	< -50.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 230	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			
1.	Notched Bent Strip		
2.	50 mm/min		
3.	50 mm/min		
4.	1.3 mm/min		

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