

SureSpec HD53-2000

High Density Polyethylene

Genesis Polymers

Message:

HD53-2000 is a Hexene copolymer certified prime grade designed for injection molding, general purpose applications. HD53-2000 features easy processability, good impact strength and good toughness. HD53-2000 complies with FDA regulation 21CFR 177.1520(c) 3.2a.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	General Purpose		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	Hexene Comonomer		
	High Density		
Uses	General Purpose		
Agency Ratings	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)	7.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	10.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break)	1000	%	ASTM D638
Flexural Modulus ³	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	1400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Brittleness Temperature	-90.0	°C	ASTM D746
Vicat Softening Temperature	129	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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