SureSpec HD53-4000

High Density Polyethylene

Genesis Polymers

Message:

HD53-4000 is a copolymer certified prime resin specially designed for molding thin wall applications requiring good balance of properties. HD53-4000 features high flow, fast cycling, easy processability, good impact strength, high gloss surfaces, good dimensional stability and good stiffness. HD53-4000 recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C.

General Information			
Features	Copolymer Fast Molding Cycle Good Dimensional Stability Good Impact Resistance Good Processability Good Stiffness High Density High Flow High Gloss		
Uses	Thin-walled Parts		
Forms	Pellets		
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)	40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, F50)	0.900	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	27.6	MPa	ASTM D638
Tensile Elongation [2] (Break)	45	%	ASTM D638
Flexural Modulus [3]	1140	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength (Compression Molded)	31.5	kJ/m²	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	73.0	°C	ASTM D648
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
Injection	**Nominal Value**	**Unit**	
Processing (Melt) Temp	210 to 230	°C	

Mold Temperature	20.0 to 40.0	°C

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	13 mm/min

Recommended distributors for this material

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