

CERTENE™ HI-2553

High Density Polyethylene
Muehlstein

Message:

HI-2553 is a certified prime copolymer designed for molding thin wall applications requiring good resistance to low temperature and good balance of mechanical properties. HI-2553 features high flow, fast cycling, easy processability, good impact strength, high gloss surfaces, good dimensional stability and warpage resistance. HI-2553 applications include multicavity margarine and yogurt tubs, ice cream pails, frozen food containers, deep drawn housewares, and over-caps. HI-2553 recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C.

General Information			
Features	Good dimensional stability		
	Highlight		
	High density		
	Copolymer		
	Bending resistance		
	Impact resistance, good		
	Workability, good		
	Fast molding cycle		
	High liquidity		
	Low temperature impact resistance		
	Excellent appearance		
Uses	Thin wall container		
	Shield		
	Household goods		
	Food container		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	1.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, Compression Molded)	27.6	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	150	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Compression Molded)	1140	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	31.5	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Additional Information			
This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.			
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		
3.	1.3 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

