CERTENE™ HI-1252

High Density Polyethylene

Muehlstein

Message:

HI-1252 is a certified prime copolymer designed for molding applications requiring good toughness and moderate stiffness. HI-1252 features medium flow, easy processability, good Environmental Stress Cracking Resistance (ESCR,) good impact strength, and good warpage resistance. HI-1252 applications include housewares, medium size food pails, buckets, over-caps and closures, tote boxes, toys, ink and photo-film cartridges. HI-1252 recommended processing temperature is 210 to 230°C. with mold @ 20 to 40°C.

General Information				
Features	Rigid, good			
	High ESCR (Stress Cracking Resistance)			
	High density			
	Copolymer			
	Bending resistance			
	Impact resistance, good			
	Workability, good			
	Medium liquidity			
	Good toughness			
Uses	Shield			
	Household goods			
	Barrel			
	Toys			
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)	12	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance				
(50°C, 100% Igepal, Compression Molded,				
F50)	4.00	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)	700	%	ASTM D638	
Flexural Modulus - 1% Secant ³ (Compression Molded)	1210	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	

Tensile Impact Strength (Compression				
Molded)	58.8	kJ/m²	ASTM D1822	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0.45				
MPa, Unannealed)	70.0	°C	ASTM D648	
Brittleness Temperature	-90.0	°C	ASTM D746	
Vicat Softening Temperature	124	°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			

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