CERTENE™ HI-355

High Density Polyethylene

Muehlstein

Message:

HI-355 is a certified prime copolymer designed for molding industrial applications requiring excellent toughness and moderate stiffness. HI-355 features easy processability, superior Environmental Stress Cracking Resistance (ESCR), excellent impact strength, good dimensional stability and warpage resistance. HI-355 suggested applications include industrial containers and lids, 1 to 5 gallon pails, tote boxes, housewares, toys and structural foam. HI-355 recommended processing temperature is 230 to 270°C. with mold @ 20 to 40°C.. HI-355 complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

Good dimensional stability			
Riaid, aood			
Rigid, good			
High ESCR (Stress Cracking Resistance)			
Copolymer			
Bending resistance			
Impact resistance, high			
Workability, good			
Good toughness			
Compliance of Food Exposure			
Structural Foam			
Industrial application			
Household goods			
Container			
Toys			
FDA 21 CFR 177.1520(c) 3.2a			
Particle			
Injection molding			
Nominal Value	Unit	Test Method	
0.955	g/cm³	ASTM D1505	
3.0	g/10 min	ASTM D1238	
16.0	hr	ASTM D1693B	
Nominal Value	Unit	Test Method	
28.0	MPa	ASTM D638	
> 1000	%	ASTM D638	
	Copolymer Bending resistance Impact resistance, high Workability, good Good toughness Compliance of Food Exposure Structural Foam Industrial application Household goods Container Toys FDA 21 CFR 177.1520(c) 3.2a Particle Injection molding Nominal Value 0.955 3.0 16.0 Nominal Value	Copolymer Bending resistance Impact resistance, high Workability, good Good toughness Compliance of Food Exposure Structural Foam Industrial application Household goods Container Toys FDA 21 CFR 177.1520(c) 3.2a Particle Injection molding Nominal Value Unit 0.955 g/cm³ 3.0 g/10 min 16.0 hr Nominal Value Unit	

Flexural Modulus - 1% Secant ⁴			
(Compression Molded)	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	74.0	kJ/m²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45		
MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature	< -90.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
Additional Information			
Test specimens from compression mo	olded plaque according to ASTM D	1928 Procedure C.	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 - 270	°C	
Mold Temperature	20.0 - 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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