CERTENE™ HGB-0354A

High Density Polyethylene

Muehlstein

Message:

HGB-0354A is a certified prime Gas Phase blow molding copolymer designed to meet end-use requirements of containers for packaging of Household Industrial Chemicals (HIC). HGB-0354A contains antistatic and features medium swell, easy and consistent processability in conventional continuous or intermittent extrusion equipment, and excellent balance of bottle ESCR, Impact strength and Stiffness. Applications include medium size containers for detergents, bleach, antifreeze, motor oil and ice chests. HGB-0354A recommended processing temperature is 160 to 180°C. with mold at 10 to 30°C.

General Information	
Additive	Antistatic property
Features	Rigid, good High ESCR (Stress Cracking Resistance) High density Copolymer frost resistance Antistatic property Impact resistance, high Workability, good Good chemical resistance Detergent resistance Oil resistance
Uses	Packaging Household goods Container
Forms	Particle
Processing Method	Blow molding

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, Compression Molded, F50)	50.0	hr	ASTM D1693

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield, Compression Molded)	26.9	MPa	ASTM D638
Tensile Elongation [2] (Break, Compression Molded)	700	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Compression Molded)	1170	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	206	kJ/m^2	ASTM D1822
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	-90.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Additional Information			
This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.			
Injection	**Nominal Value**	**Unit**	
Mold Temperature	10.0 - 30.0	°C	
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 - 180	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

Recommended distributors for this material

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