

Tuesday, June 24, 2014

CERTENE™ HPB-0354

Channel Prime Alliance - High Density Polyethylene

Units SI ▼

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General Information

Product Description

HPB-0354 is a certified prime grade Phillips Process BLOW MOLDING copolymer designed to meet end-use requirements of containers for packaging of Household Industrial Chemicals (HIC). HPB-0354 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. HPB-0354 recommended processing temperature is 160 to 180°C., with mold at 10 to 30°C. HPB-0354 complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General		
Material Status	Commercial: Active	
Availability	Latin America	North America
Features	CopolymerDetergent ResistantGood Chemical Resistance	 Good Processability High Impact Resistance High Stiffness High ESCR (Stress Crack Resist.)
Uses	 Industrial Containers 	Packaging
Forms	• Pellets	
Processing Method	Blow Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ASTM
Melt Mass-Flow Rate (MFR)			D1505 ASTM D1238
190°C/2.16 kg	0.35	g/10 mii	า
190°C/21.6 kg	30	g/10 mii	า
Environmental Stress-Cracking Resistance (50°C, 1.75 mm, 100% Igepal, Compression Molded, F50)	50.0	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Compression Molded)	26.9	MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	> 700	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Compression Molded)	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (Compression Molded)	206	kJ/m²	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			

Processing Information

This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.

Injection	Nominal Value Unit
Mold Temperature	10.0 to 30.0 °C
Extrusion	Nominal Value Unit
Melt Temperature	160 to 180 °C
Notes	
¹ Typical properties: these are not to be construed as specifications.	
² 50 mm/min	
³ 1.3 mm/min	



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Nominal ValueThe information presented on this datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no www.ides.com responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

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