

CERTENE™ HPB-0354 Muehlstein - Polyethylene, High Density

Monday, May 07, 2007

General Information

Product Description

HPB-0354 is a certified prime 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.

General		
Material Status	Commercial: Active	
Availability	North America	
Test Standards Available	• ASTM	
Features	 Chemical Resistance, Good Copolymer Density, High Detergent Resistant 	 ESCR, High (Stress Crack Resist.) Impact Resistance, High Processability, Good Stiffness, High
Uses	Containers, IndustrialPackaging	
Forms	Pellets	
Processing Method	Blow Molding	

ASTM and ISO Properties 1

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Nominal Value Unit	Test Method
0.954 g/cm ³	ASTM D1505
0.3 g/10 min	ASTM D1238
50.0 hr	ASTM D1693
Nominal Value Unit	Test Method
26.9 MPa	ASTM D638
700 %	ASTM D638
1% Secant: 1170 MPa	ASTM D790
Nominal Value Unit	Test Method
206 kJ/m ²	ASTM D1822
Nominal Value Unit	Test Method
74.0 °C	ASTM D648
-90.0 °C	ASTM D746
127 °C	ASTM D1525
	Nominal Value Unit 0.954 g/cm³ 0.3 g/10 min 50.0 hr Nominal Value Unit 26.9 MPa 700 % 1% Secant: 1170 MPa Nominal Value Unit 206 kJ/m² Nominal Value Unit 74.0 °C -90.0 °C 127 °C

Additional Properties

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

Processing Information		
Injection	Nominal Value Unit	
Mold Temperature	10.0 to 30.0 °C	
Extrusion	Nominal Value Unit	
Melt Temperature	160 to 180 °C	

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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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