

# AMERICOLENE® AP6007



## High Density Polyethylene Homopolymer Blow Molding HDPE (BM)

Americolene® AP6007 generic, prime, is a high density polyethylene homopolymer, developed specifically for blow molding food containers on reciprocating screw-type equipment. It exhibits excellent processing characteristics and extremely low odor in the finished container. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

### Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
<b>Typical Resin Properties for AP6007:</b>			
Melt Index 190 C/2.16 kg	D1238	g/10 min.	<b>0.72</b>
Density	D4883	g/cc	<b>0.963</b>
<b>Compression Molded Samples</b>			
Tensile Strength (2 in/min)	D638		
@ Yield		31.0 MPa	4,500 psi
@ Break		13.8 MPa	2,000 psi
Elongation (2 in/min)	D638		
@ Yield		8 %	8 %
@ Break		>600 %	>600 %
Flexural Modulus	D790A		
Tangent Method		1,650 MPa	240,000 psi
2% Secant		1,311 MPa	150,000 psi
Notched Izod Impact Strength	D256	25.2 kJ/m <sup>2</sup>	4.8 ft-lbf/in
Hardness	D2240		
Shore D		70	70
Vicat Softening Point	D1525	129 C	264 F
Brittleness Temperature	D746	<-75 C	<-103 F
Heat Deflection Temperature	D648		
@ 66 psi (455 kPa)		81 C	178 F
@ 264 psi (1,820 kPa)		49 C	120 C
Environmental Stress Crack Resistance	D1693		
Condition B, 100% Igepal, F50 (hrs.)		8 hrs	8 hrs

\* MD / TD

Published 02/01/13, Revised 11/10/21

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