

AMERICOLENE® AP5502

AMERICOLENE

High Density Polyethylene Copolymer Blow Molding HDPE (BM)

Americolene® AP5502 is a generic, prime, high density polyethylene copolymer resin produced-slurry technology and intend to be use in a variety of applications such as HIC Bottles, toys and profile extrusion. Americolene® AP5502 all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
Typical Resin Properties for AP5502:			
Melt Index 190 C/2.16 kg	D1238	g/10 min.	0.35
Density	D1505	g/cc	0.955
Compression Molded Samples			
Tensile Strength (2 in/min)	D638		
@ Yield		27 MPa	4,000 psi
@ Break		17 MPa	2,500 psi
Elongation (2 in/min)	D638		
@ Yield		9 %	9 %
@ Break		600 %	600 %
Flexural Modulus	D790		
Tangent Method		1,370 MPa	200,000 psi
2% Secant		1,035 MPa	150,000 psi
Notched Izod Impact Strength	D256	16 kJ/m2	3.2 ft-lbf/in
Hardness	D2240		
Shore D		64	64
Vicat Softening Point	D1525	127 C	261 F
Brittleness Temperature	D746	<-75 C	<-103 F
Heat Deflection Temperature	D648		
@ 66 psi (455 kPa)		75 C	167 F
@ 264 psi (1,820 kPa)		48 C	118 C
Environmental Stress Crack Resistance	D1693		
Condition B, 100% Igepal, F50 (hrs.)		30	30

* MD / TD

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Any inquiries regarding this data sheet should be addressed to: 11824 Jollyville Rd Austin, TX 78759 · Phone (800) 729 5417 · Fax: (512) 992 0225

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