

AMERICOLENE® APC800-IM

AMERICOLENE

Polyethylene Homopolymer

AMERICOLENE® APC800-IM is a narrow molecular weight distribution high density polyethylene homopolymer intended for general purpose injection molding applications requiring good rigidity and a glossy surface finish. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

Typical Properties¹

	Values English Units	Values SI Unitseth	ASTM
Resin			
Density	-	0.960 g/cc	D4883
Melt Index 190 C/ 2.16 kg	-	12 g/10 min	D1238
Compression Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	4,200 psi	28.9 MPa	
@ Break	1,700 psi	11.7 MPa	
Elongation (2 in/min)			D638
@ Yield	8.0 %	8.0 %	
@ Break	> 300 %	> 300 %	
Flexural Modulus			D790A
Tangent Method	240,000 psi	1,650 MPa	
Notched Izod Impact Strength	0.7 ft-lbf/in	3.5 kJ/m ²	D256
Hardness			D2240
Shore D	70	70	
Vicat Softening Point	253 F	123 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455kPa)	174 F	79 C	
Environmental Stress Crack Resistance			D1693
Condition B; 100% Igepal F50 (hrs.)	3	3	

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

The information and recommendation in this publication are, to the best of knowledge, reliable. Suggestions concerning uses are only the opinion of AMERICORP INTERNATIONAL LTD, U.S.A. and users should perform their own tests to determine the suitability of this products for their own particular purposes. However, because of the numerous factors affecting the results, AMERICORP INTERNATIONAL LTD, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSES, other than that the material conforms to the applicable current standard specifications statement herein, therefor, should not be construed as representations or warranties. The responsibility of AMERICORP INTERNATIONAL LTD, U.S.A. for claims arising out of breach warranty, negligence, and strict liability or otherwise is limited to the purchase price of the material. Statement concerning the use of the products of AmeriCorp described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed