

AMERICOLENE® APC80064S

AMERICOLENE

high density polyethylene homopolymer

AMERICOLENE® APC80064S 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 Properties

	Values English Units	Values SI Units	ASTM Method
Resin			
Density	-	0.960 g/cc	D4883
Melt Index 190 C/2.16 kg	-	8.0 g/10 min	D1238
Compression Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,550 psi	31.0 MPa	
@ Break	2,293 psi	22.0 MPa	
Elongation (2 in/min)			D638
@ Yield	8.3 %	8.3 %	
@ Break	940 %	940 %	
Flexural Modulus			D790
Tangent Method	238,830 psi	1,647 MPa	
Notched Izod Impact Strength	0.71 ft-lbf/in	3.75 kJ/m ²	D256
Hardness			D2240
Shore D	70	70	
Vicat Softening Point	262.5 F	128 C	D1525
Brittleness Temperature	<-94 F	<-70 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	174 F	79 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	4	4	

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