

AMERICOLENE® APC2050-IM



High Density Polyethylene Injection Molding (HDPE-IM)

Americolene® APC2050-IM is a generic, prime, narrow molecular weight high density polyethylene copolymer intended for applications requiring a glossy finish and reasonably good impact strength and rigidity. It is characterized by a high melt index which allows easy processing of medium to thin walled articles. This material meets the Food and Drug Administration requirements of 21 CFR 177.1520.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
<i>Typical Resin Properties for APC2050-IM:</i>			
Melt Index	D1238	g/10 min.	20.0
Density	D4883	g/cc	0.9530
Tensile Strength (2 in/min)	D638		
@ Yield		27.6 MPa	4,000 psi
@ Break		14.8 MPa	2,140 psi
Elongation (2 in/min)	D638		
@ Yield		9.1 %	9.1 %
@ Break		>200 %	>200 %
Flexural Modulus	D790A		
2% Secant Method		1,227 MPa	178,900 psi
Tangent Method		1281 Mpa	185,800 psi
Notched Izod Impact Strength	D256	2.77 kJ/m ²	0.53 ft-lbf/in
Hardness	D2240		
Shore D		66	66
Vicat Softening Point	D1525	125 C	257 F
Brittleness Temperature	D746	<-70 C	<-94 F
Heat Deflection Temperature	D648		
@ 66 psi (455 kPa)		72 C	162 F
Environmental Stress Crack Resistance	D1693		
Condition B, 100% Igepal, F50 (hrs.)		1.8	1.8

* MD / TD

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