

AMERICOLENE® APC550-IM



High Density Polyethylene Injection Molding (HDPE-IM)

Americolene® APC550-IM is a generic, prime, high density polyethylene copolymer with a narrow molecular weight distribution. It is intended for injection molding applications where a good balance of processability and end-use properties are required. This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
<i>Typical Resin Properties for APC550-IM:</i>			
Melt Index	D1238	g/10 min.	6.0
Density	D4883	g/cc	0.953
Tensile Strength (2 in/min)	D638		
@ Yield		27.4 MPa	4,000 psi
@ Break		20.0 MPa	2,900 psi
Elongation (2 in/min)	D790A		
@ Yield		9.5 %	9.5 %
@ Break		1,080 %	1,080 %
Flexural Modulus	D790A		
2% Secant Method		988 MPa	143,000 psi
Tangent Method		1281 Mpa	185,800 psi
Notched Izod Impact Strength	D256	4.4 kJ/m ²	0.8 ft-lbf/in
Hardness	D2240		
Shore D		63	63
Vicat Softening Point	D1525	125 C	257 F
Brittleness Temperature	D746	<-70 C	<-103 F

* MD / TD

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