

AMERICOLENE® APC3950HI



Polypropylene High Impact Copolymer (PPIC)

Americolene® APC3950HI is a low gloss and high impact nucleated polypropylene copolymer. It is designed for high-speed injection molding applications and/or for compounding where high melt-state fluidity is required. This material meets the requirements of the US Food and Drug Administration as specified in 21 CFR 177.1520.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
<i>Typical Resin Properties for: APC3950HI</i>			
Melt Flow Rate 230°C/2.16 kg	D1238	g/10 min.	34.0
Density	D792	g/cc	0.903
Injection Molded Sample			
Tensile Strength (2 in/min)	D638		
@ Yield		29.6 MPa	3,900 psi
@ Break		19.2 MPa	2,785 psi
Elongation (2 in/min)	D638		
@ Yield		5.23%	5.23%
@ Break		132%	132%
Flexural Modulus	D790A		
1% Secant		1,195 MPa	173,400 psi
Notched Izod Impact Strength	D256		
@ 23 C		14.7 ft-lbf/in	2.8 kJ/m2
@ -20 C		6.2 ft-lbf/in	1.2 kJ/m2
Hardness	D785		
Rockwell R		89	89
Vicat Softening Point	D1525	151 C	304 F
Heat Deflection Temperature	D648		
@ 66 psi (455 kPa)		106 C	223 F
@ 264 psi (1,820 kPa)		57 C	135 F
Gloss Units, 60° angle	D2457	69.2	
Instrumented Impact	D3763		
@ 23°C		DUCTILE	DUCTILE
@ -20°C		DUCTILE	DUCTILE
Brittleness Temperature	D746	-30 TO -20 C	-22 TO -4 F

* MD / TD

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