

# AP6412-HS

## Impact Copolymer for Injection Molding

**Features:** Good blush/impact resistance. Produced without animal derived components

**Applications:** Appliance components, furniture, and consumer durables

## Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	12 g/10min		D1238
Density	0.90 g/cm <sup>3</sup>		D1505
Melting Temperature	160 -165 °C	320 – 329 °F	D3418

## Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	24 MPa	3550 psi	D 638
Tensile Yield Elongation	7 %	7 %	D 638
Flexural Modulus - Tangent	1138 MPa	165 kpsi	D 790
Flexural Modulus - Secant	1068 MPa	155 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	82 °C	180 °F	D 648
Rockwell Hardness		90 R	D 785
Notched Izod @ 23°C	130 J/m	2.4 ft-lb/in	D 256
Gardner Impact @ -30°C	28 J	250 in-lb	D 5420

## Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

UL Certified 94HB

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