



Polyintec® APC3950HIX

High Impact Polypropylene Copolymer for Injection Molding

Product Description:

Polyintec® APC3950HIX is a low gloss, high impact, nucleated polypropylene copolymer (PPIC). It is designed for high-speed injection molding applications and 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.

Suggested Applications:

Injection molded parts, Compounding.

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
Typical Resin Properties:			
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 @ Yield (2 in/min)	D638	MPa (psi)	29.6 (3900)
Tensile Strength @ Break (2 in/min)	D638	MPa (psi)	19.2 (2785)
Elongation @ Yield (2 in/min)	D638	%	5.23
Elongation @ Break (2 in/min)	D638	%	132
Flexural Modulus (1% Secant)	D790A	MPa (psi)	1195 (173400)
Notched Izod Impact Strength @ 23°C	D256	ft-lbf/in(kJ/m2)	14.7 (2.8)
Notched Izod Impact Strength @ -20°C	D256	ft-lbf/in (kJ/m2)	6.2 (1.2)
Hardness (Rockwell R)	D785		89
Vicat Softening Point	D1525	°C (°F)	151 (304)
Heat Deflection Temperature @ 66 psi	D648	°C (°F)	106 (223)
Heat Deflection Temperature @ 264 psi	D648	°C (°F)	57 (135)
Gloss Units (60° angle)	D2457		69.2
Instrumented Impact @ 23°C	D3763		DUCTILE
Instrumented Impact @ -20°C	D3763		DUCTILE
Brittleness Temperature	D746	°C (°F)	-30 to -20 (-22 to -4)

Important Note:

The properties listed above are typical values obtained under laboratory conditions and are not intended to be used as specifications. It's recommended that users should perform their own tests to determine the suitability of this products for their own particular purposes.