

SureSpec IP-350

Polypropylene Impact Copolymer

Genesis Polymers

Message:

IP-350 is an Impact Copolymer certified prime resin designed for injection molding requiring optimal balance of stiffness and impact resistance applications. IP-350 offers improved processability, high melt flow for easy filling multicavity and intricate mold geometry, fast cycling, and very good dimensional stability. IP-350 complies with FDA regulation 21CFR 177.1520 (a)(3)(i) / (c)3.1 + 3.2, and most international regulations concerning the use of Polypropylene in contact with food.

General Information

Features	Fast Molding Cycle
	Food Contact Acceptable
	Good Dimensional Stability
	Good Impact Resistance
	Good Stiffness
	High Flow
	Impact Copolymer

Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i)
	FDA 21 CFR 177.1520(c) 3.1
	FDA 21 CFR 177.1520(c) 3.2

Forms	Pellets
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Processing Method	Injection Molding
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Physical	Nominal Value	Unit	Test Method
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Density	0.900	g/cm ³	ASTM D1505
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Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
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Hardness	Nominal Value	Unit	Test Method
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Rockwell Hardness (R-Scale)	83		ASTM D785
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Mechanical	Nominal Value	Unit	Test Method
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Tensile Strength ¹ (Yield)	26.2	MPa	ASTM D638
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Tensile Elongation ² (Yield)	9.0	%	ASTM D638
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Flexural Modulus - 1% Secant ³	1310	MPa	ASTM D790
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Impact	Nominal Value	Unit	Test Method
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Notched Izod Impact (23°C)	69	J/m	ASTM D256
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Thermal	Nominal Value	Unit	Test Method
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Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	103	°C	ASTM D648
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NOTE

1.	50 mm/min
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2.	50 mm/min
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