

SureSpec IP-005NB

Polypropylene Impact Copolymer

Genesis Polymers

Message:

IP-005NB is a Polypropylene certified prime NO BREAK resin developed for Extra High Izod Impact, containers produced by Thermoforming, Extrusion-Blow or Injection-Blow molding equipment exhibit good Low Temperature Drop Impact for applications requiring superior rigidity, toughness and good organoleptic properties. IP-005NB complies with FDA regulation 21CFR 177.1520 (a)(3)(i) (c)3.1+3.2, and most international regulations concerning Polypropylene use in contact with food.

General Information			
Features	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Toughness		
	High Rigidity		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Ultra High Impact Resistance		
Uses	Containers		
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		
Processing Method	Extrusion Blow Molding		
	Injection Blow Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	78		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	29.6	MPa	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus - 1% Secant ³	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	88.0	°C	ASTM D648
Vicat Softening Temperature ⁴	135	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		
4.	Injection molded		

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