

SureSpec HS-030

High Impact Polystyrene

Genesis Polymers

Message:

HS-030 is a certified prime resin designed for extrusion-thermoforming applications requiring good rigidity and elongation. The low residual volatiles of this resin makes it particularly suitable for packaging taste and odor sensitive articles. HS-030 is a medium-flow grade that offers excellent melt uniformity and consistency of flow, superior impact resistance and very good extrusion and thermoform processability. HS-030 complies with FDA regulation 21CFR 177.1640, and with most international regulations concerning the use of Polystyrene in contact with food articles.

General Information			
Features	Food Contact Acceptable		
	Good Flow		
	Good Processability		
	High Elongation		
	High Impact Resistance		
	High Rigidity		
	Low Residuals		
	Low to No Odor		
	Low to No Taste		
Uses	Packaging		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ASTM D638
Tensile Strength ¹ (Yield)	24.8	MPa	ASTM D638
Tensile Elongation ² (Break)	45	%	ASTM D638
Flexural Modulus - 1% Secant ³	2280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.0	°C	ASTM D648

Vicat Softening Temperature	102	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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