

SureSpec HS-120

High Impact Polystyrene

Genesis Polymers

Message:

HS-120 is a certified prime grade developed for injection molding applications requiring good strength coupled with good flexibility. HS-120 offers excellent uniformity and consistency of melt viscosity, easy-flow processability and very good Impact resistance of molded articles. HS-120 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 Flexibility		
	Good Flow		
	Good Strength		
	High Impact Resistance		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
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)	12	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 (Injection Molded)	2000	MPa	ASTM D638
Tensile Strength ¹ (Yield)	15.9	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus - 1% Secant ³	2050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	73.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		

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