

Innova SR 550

High Impact Polystyrene

Innova SA

Message:

- Characteristics:
- High flow
- Good mechanical properties and impact resistance
- Process:
- Injection moulding
- Applications:
- Toys
- Furniture components
- Building applications

General Information			
UL YellowCard	E220962-229639		
Features	Food Contact Acceptable		
	High Flow		
	High Impact Resistance		
Uses	Construction Applications		
	Consumer Applications		
	Furniture		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			
Saturation	< 0.10	%	ASTM D570
Saturation, 23°C	< 0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	60		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2000	MPa	ASTM D638
23°C	1950	MPa	ISO 527-2
Tensile Strength (Break, 23°C)	20.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			

Break, 23°C	50	%	ASTM D638
Break, 23°C	55	%	ISO 527-2
Flexural Strength			
23°C	42.0	MPa	ASTM D790
23°C	41.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	110	J/m	ASTM D256
23°C	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	83.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	92.0	°C	ASTM D1525, ISO 306/A50 3 ¹
--	89.0	°C	ASTM D1525, ISO 306/B50 4 ²
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 to 260	°C	
Mold Temperature	40.0 to 75.0	°C	
NOTE			
1.	Rate A (50°C/h), Loading 1 (10 N)		
2.	Rate A (50°C/h), Loading 2 (50 N)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT