

Innova N 1841

General Purpose Polystyrene

Innova SA

Message:

- Characteristics:
- Good mechanical properties
- Excellent processability
- Process:
- Fast cycle injection moulding
- Coextrusion (gloss layer)
- Applications:
- Disposables
- Packagings
- Household wares

General Information	
UL YellowCard	E220962-229633
Features	Food Contact Acceptable
	General Purpose
	Good Processability
Uses	Household Goods
	Packaging
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	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	0.30 to 0.60	%	
Water Absorption			
Saturation	0.10	%	ASTM D570
Saturation, 23°C	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3250	MPa	ASTM D638
23°C	3300	MPa	ISO 527-2
Tensile Strength			

Break, 23°C	47.0	MPa	ASTM D638
Break, 23°C	42.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	1.8	%	ASTM D638, ISO 527-2
Flexural Strength (23°C)	80.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	23	J/m	ASTM D256
23°C	1.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	84.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	93.0	°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	200 to 250	°C	
Mold Temperature	50.0 to 75.0	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	210 to 240	°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

