Innova N 1921

General Purpose Polystyrene

Innova SA

Message:

Characteristics:
High flow
Excellent processability
Process:
Fast cycle injection moulding
Coextrusion (gloss layer)
Applications:
Disposables
Packagings
Household wares
School articles

General Information	
UL YellowCard	E220962-100032642
Features	Food Contact Acceptable General Purpose Good Processability High Flow
Uses	Household Goods Packaging
Agency Ratings	FDA 21 CFR 177.1640
Forms	Pellets
Processing Method	Coextrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	20	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	3200	MPa	ASTM D638

23°C	3300	MPa	ISO 527-2
Tensile Strength			
Break, 23°C	44.0	MPa	ASTM D638
Break, 23°C	40.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	1.7	%	ASTM D638, ISO 527-2
Flexural Strength (23°C)	75.0	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)	81.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	92.0	°C	ASTM D1525, ISO 306/A50 3 [1]
--	88.0	°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	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)		

Recommended distributors for this material

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