

Innova N 2380

General Purpose Polystyrene

Innova SA

Message:

- Characteristics:
- High molecular weight
- High thermal resistance and mechanical strength
- Process:
- Extrusion
- Applications:
- Disposables trays Bioriented films (BOPS)
- Mixture with HIPS in sheet extrusion
- Shower cabin panels

General Information	
UL YellowCard	E220962-229634
Features	Food Contact Acceptable
	General Purpose
	High Molecular Weight
	High Strength
Uses	Film
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)	2.0	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	3300	MPa	ASTM D638
23°C	3350	MPa	ISO 527-2
Tensile Strength			
Break, 23°C	57.0	MPa	ASTM D638
Break, 23°C	54.0	MPa	ISO 527-2

Tensile Elongation (Break, 23°C)	2.5	%	ASTM D638, ISO 527-2
Flexural Strength			
23°C	95.0	MPa	ASTM D790
23°C	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	23	J/m	ASTM D256
23°C	2.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	106	°C	ASTM D1525, ISO 306/A50 3 ¹
--	101	°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	220 to 270	°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)		

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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

