

Innova R 870E

High Impact Polystyrene

Innova SA

Message:

Characteristics:

High impact

High stiffness

High heat resistance

Process:

Extrusion and thermoforming

Injection moulding

Applications:

Disposables

Packagings

General Information			
Features	Food Contact Acceptable		
	High Heat Resistance		
	High Impact Resistance		
	High Stiffness		
Uses	Packaging		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Thermoforming		
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)	4.5	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)	65		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2200	MPa	ASTM D638, ISO 527-2
Tensile Strength			
Break, 23°C	27.0	MPa	ASTM D638
Break, 23°C	26.0	MPa	ISO 527-2
Tensile Elongation			

Break, 23°C	66	%	ASTM D638
Break, 23°C	68	%	ISO 527-2
Flexural Strength			
23°C	47.0	MPa	ASTM D790
23°C	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	150	J/m	ASTM D256
23°C	12	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	86.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ASTM D1525, ISO 306/A50 2 ¹
--	194	°C	ASTM D1525, ISO 306/B50 3 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	
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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