Innova R 970E

High Impact Polystyrene

Innova SA

Message:

Characteristics:
High impact
High stiffness
Process:
Extrusion and thermoforming
Applications:
Shoe heels
Food packaging
Disposables

General Information	
Features	Food Contact Acceptable High Impact Resistance High Stiffness
Uses	Food Packaging Footwear Non-specific Food Applications 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/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	4.0	g/10 min	ASTM D1238
200°C/5.0 kg	3.5	g/10 min	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	2050	MPa	ASTM D638
23°C	2000	MPa	ISO 527-2
Tensile Strength (Break, 23°C)	27.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Break, 23°C	70	%	ASTM D638
Break, 23°C	75	%	ISO 527-2
Flexural Strength			
23°C	41.0	MPa	ASTM D790
23°C	42.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C, 3.20 mm	160	J/m	ASTM D256
23°C	13	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			
--	95.0	°C	ASTM D1525, ISO 306/A50 2 [1]
--	102	°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)		

Recommended distributors for this material

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