

Innova RT 441M

High Impact Polystyrene

Innova SA

Message:

Characteristics:

Good balance between rigidity and impact

Good processability

Medium gloss

Process:

Injection moulding (especially designed for gas-assisted injection)

Applications:

Electronics

Refrigeration

Technical items

General Information			
UL YellowCard	E220962-229638		
Features	Food Contact Acceptable		
	Good Processability		
	High Impact Resistance		
	Medium Gloss		
Uses	Consumer Applications		
	Electrical/Electronic Applications		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Processing Method	Injection Molding		
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)	7.0	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)	75		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break, 23°C)	24.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Break, 23°C	50	%	ASTM D638
Break, 23°C	55	%	ISO 527-2

Flexural Strength			
23°C	45.0	MPa	ASTM D790
23°C	42.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	120	J/m	ASTM D256
23°C	9.0	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			
--	96.0	°C	ASTM D1525, ISO 306/A50 3 ¹
--	91.0	°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	40.0 to 75.0	°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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