

Innova R 940D

High Impact Polystyrene

Innova SA

Message:

- Characteristics:
- High stress cracking resistance (ESCR)
- Good mechanical properties and imact resistance
- Process:
- Extrusion and thermoforming
- Injection moulding
- Applications:
- Refrigeration (refrigerator doors and inner liner)
- Fatty foods packaging (eg margarine)

General Information	
UL YellowCard	E220962-102129023
Features	Food Contact Acceptable
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
Uses	Consumer Applications
	Food Packaging
	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/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	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)	51		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1800	MPa	ASTM D638

23°C	1850	MPa	ISO 527-2
Tensile Strength			
Break, 23°C	23.0	MPa	ASTM D638
Break, 23°C	24.0	MPa	ISO 527-2
Tensile Elongation			
Break, 23°C	60	%	ASTM D638
Break, 23°C	65	%	ISO 527-2
Flexural Strength			
23°C	37.0	MPa	ASTM D790
23°C	35.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	200	J/m	ASTM D256
23°C	15	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			
--	98.0	°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	40.0 to 70.0	°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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