

Innova Clear R 350L G2

High Impact Polystyrene

Innova SA

Message:

- Characteristics:
- Medium impact
- Transparency and exibility
- Excellent gloss
- Process:
- Extrusion
- Thermoforming
- Injection moulding
- Applications:
- Disposables and thermoformed
- transparent packagings
- Coulored injected articles

General Information			
Features	Food Contact Acceptable		
	Good Flexibility		
	High Clarity		
	High Gloss		
	Medium Impact Resistance		
Uses	Consumer Applications		
	Non-specific Food Applications		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1640		
Appearance	Clear/Transparent		
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)	5.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage	< 0.010	%	Internal Method
Water Absorption			
Saturation	< 0.10	%	ASTM D570
Saturation, 23°C	< 0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	80		ASTM D785, ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2350	MPa	ASTM D638
23°C	2300	MPa	ISO 527-2
Tensile Strength			
Break, 23°C	32.0	MPa	ASTM D638
Break, 23°C	31.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	30	%	ASTM D638, ISO 527-2
Flexural Strength			
23°C	62.0	MPa	ASTM D790
23°C	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.20 mm	60	J/m	ASTM D256
23°C	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	82.0	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	99.0	°C	ASTM D1525, ISO 306/A50 2 ¹
--	93.0	°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	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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