

INSPIRE™ 234
Subgroup:

Performance Homopolymer

Description:

INSPIRE™ 234 Performance Homopolymer has been developed for sheet extrusion and subsequent thermoforming. The targeted applications require superior stiffness, high temperature resistance and optical performance. The grade has excellent organoleptic properties and contains an antistatic agent.

Applications:

- Vending cups, dairy pots, blister packaging, trays for biscuits, chocolates and fruits
- Sheets, boards, profiles and pipes

Process:

- General extrusion and subsequent thermoforming.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (230°C/2.16 kg)	3.2 g/10 min	3.2 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Injection Molded)	6530 psi	45 MPa	ISO 527-2
Tensile Strain (Break, Injection Molded)	10 %	10 %	ISO 527-2
Flexural Modulus (Injection Molded)	305000 psi	2100 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
73°F (23°C), Injection Molded	1.7 ft·lb/in ²	3.5 kJ/m ²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	241 °F	123 °C	
Vicat Softening Temperature	318 °F	159 °C	ISO 306/A

Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (Injection Molded)	30%	30%	ASTM D1003

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

* Injection Molded

