

INSPIRE™ 361

Subgroup:

Performance Random Copolymers

Description:

INSPIRE™ 361 Performance Random Copolymer has been specifically developed for film extrusion applications. The polymer combines features like good processing, excellent mechanical property balance and high clarity.

Applications:

- Specialty film e.g. multilayer component
- Shrink film

Process:

- Blown film

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)	1.8 g/10 min	1.8 g/10 min	ISO 1133

Film properties (mechanics)	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ISO 527-3
1% Secant Modulus MD	117500 psi	810 MPa	
1%Secant Modulus TD	115000 psi	790 MPa	
Tensile Stress			ISO527-3
MD: Yield, 2.0 mil (50µm)	6815 psi	47 MPa	
TD: Yield, 2.0 mil (50µm)	4640 psi	32 MPa	
Tensile Elongation			ISO527-3
MD: Break, 2.0 mil (50µm)	580 %	580 %	
TD: Break, 2.0 mil (50µm)	580 %	580 %	

Film properties (Optics)	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze (blown films 50µm),	3 %	3%	ASTM D1003
Gloss (45°)	80%	80%	ASTM D2457

