

# Argotec™ HP-8000

## General Description

- **Typical application:** Glass lamination optical interlayer film
- **Polymer:** Thermoplastic polyurethane, aliphatic polyether
- **Key attribute:**
  - Eliminates need for glass surface primer
  - Clear, non-yellowing
  - Contains additive package for UV resistance

Property / Capability		Test Method	Typical Value
Gauge Ranges		N/A	15, 25, 50 mils (380, 635, 1270 microns)
Width Ranges		N/A	Up to 60 Inches (1.52 meters)
Length Ranges		N/A	Up to 500 lin-ft (152.4 meters)
Durometer		ASTM D-2240	75A
Specific gravity		ASTM D-792	1.08
Tensile strength	@100%	ASTM D-638 (Die-IV used with grip separation rate of 20-in./min. on SU 50-mil film)	518 psi (3.57 MPa)
	@200%		744 psi (5.13 MPa)
	@300%		1391 psi (9.60 MPa)
	@Break		5800 psi (40.03 MPa)
Elongation @ break			550%
Tear strength		ASTM D-624	263 pli (42.0 kN/m)
DSC mid point, Tg°C		N/A	-50
TMA peak			194°F (90°C)
TMA range			158-266°F (70-130°C)
Coefficient of thermal expansion			177.97/ppm/oC
Compression set, 22 hrs	@72°F/22°C	ASTM D-395	86
	@158°F/70°C		106
Haze*		ASTM D-1003	< 1.0%
Transmission*			85 - 91%
Yellowness index*		ASTM E-313	< 1
Refractive index*		ASTM D-542	1.501

\*Film tested between two pieces of 1/8-in. glass; sample size 4"x4"x50-mil; lamination temp 255°F; time & pressure: 45 seconds @ 100 psi, 45 seconds @ 300 psi

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Advanced  
Materials  
& Structures

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