

TECHNICAL DATA

- Provide an aggressive, permanent, pressure sensitive bond
- Stain resistant, crystal clear, solid acrylic construction
- Excellent environmental resistance — including moisture and sub-zero temps
- Reduce and dampen vibration, sound, and shock
- Flexible, moldable, compressionable, and highly conformable
- Resist hardening, weathering, and yellowing with age
- Replace traditional fasteners, liquid adhesives, and spot welds

Product Description

Pres-On PHB1000 Series High Bond Tapes are pressure sensitive, water clear, and designed to provide a superior bond to a wide variety of substrates, including glass and other clear materials. These tapes possess a uniform high-tack acrylic adhesive on both surfaces and bond to most clean, dry, oil-free substrates. PHB1000 is formulated to withstand chemicals, plasticizers, weathering, steam, moisture, and wide temperature ranges without losing adhesion power.

Applications

Suitable for high and medium surface energy plastics, transparent plastics, stainless steel, galvanized steel, anodized aluminum, coated aluminum, and glass. Primarily designed for shower doors, PHB1000 finds uses in electronics assembly, auto trim attachment, signage, graphics, skin-to-frame assembly, furniture, appliances, and a variety of other OEM and construction applications.

STANDARD ROLL SIZE	SERIAL NUMBER	THICKNESS	LENGTH
All rolls available in widths from 3/16" to 19"	PHB1010	0.010"	180'
	PHB1020	0.020"	108'
	PHB1030	0.030"	108'
	PHB1040	0.040"	108'
	PHB1060	0.060"	54'

PHYSICAL PROPERTIES	PROPERTY	UNIT OF MEASURE	TYPICAL PERFORMANCE	TEST METHOD
	Density	kg/m ³ (lb/ft ³)	840 (52) - PHB1010 900 (56) - PHB1020 900 (56) - PHB1030 900 (56) - PHB1040 900 (56) - PHB1060	---
	Tape Color	---	Clear	---

ADHESION PROPERTIES	TEST	UNIT OF MEASURE	TYPICAL VALUE	TEST METHOD
	90° Peel Adhesion	N/10mm (lb/in)	26 (15) - PHB1010 30 (17) - PHB1020 32 (18) - PHB1030 33 (18) - PHB1040 35 (20) - PHB1060	ASTM-D3330
	Dynamic Shear Strength	kPa (lb/in ²)	600 (86) - PHB1010 610 (88) - PHB1020 550 (80) - PHB1030 520 (75) - PHB1040 480 (69) - PHB1060	ASTM-D-1002



PHB1000 Series High Bond Tapes

ADHESION PROPERTIES	TEST	UNIT OF MEASURE	TYPICAL PERFORMANCE	TEST METHOD
	Normal Tensile	kPa (lb/in ²)	750 (108) - PHB1010	ASTM-D-897
			680 (99) - PHB1020	
			630 (91) - PHB1030	
			590 (85) - PHB1040	
			540 (78) - PHB1060	
	Static Shear Strength	Grams (g) - Weight that 1/2 square inch will hold for 10,000 minutes (7 days)	22°C (72°F) - 1000	ASTM-3654
			66°C (150°F) - 500	
			93°C (200°F) - 500	
			121°C (250°F)	
			177°C (350°F)	
ADDITIONAL PERFORMANCE CHARACTERISTICS			TYPICAL PERFORMANCE	
Shelf Life			1 year	
Recommended Application Temperature			50°F to 100°F (10°C to 37.8°C)	
Temperature Resistance			-40°F to 212°F	
Solvent Resistance			Excellent	
U.V. Resistance			Excellent	

NOTE: Pres-On acrylic tapes are not intended for use with heavily plasticized materials or very low surface energy plastics, such as polyethylene and polypropylene.

Application Notes

Ensure bonding surfaces are well unified, clean, dry and free of dirt and oils. Apply firm and even pressure to improve adhesive-to-surface contact. Allow proper temperature and time to enhance bond strength as adhesive flows onto the surface.

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