VOLZ® TAPES

COATING
CONVERTING
DISTRIBUTION

volzAcrylicFoam

Double-Sided Tapes for High-Performance Bonding

VOLZ TAPES® high-performance, acrylic-foam tapes are offered as both stand-alone products or as part of a comprehensive, custom, adhesive-tape solution.

As part of the acrylic adhesive family of double-sided foam tapes, acrylic foam tapes provide an excellent bond that rivals liquid adhesives and mechanical fasteners.

Principally, they are stronger and last longer than most other tapes, especially under adverse conditions such as prolonged direct sunlight or extreme cold.

volzAcrylicFoam tapes are strong, durable and versatile. They provide a reliable seal against moisture, dust, and air, and resist UV exposure and harsh chemicals.

Highly conformable, and able to adhere effortlessly to irregular, curved, or uneven surfaces, volzAcrylicFoam tapes deliver long-lasting adhesion - even in the most challenging of environments.

From applying exterior automotive trim to weatherproofing, or mounting signs and displays, volzAcrylicFoam tapes are the dependable choice whenever a secure, durable bond is essential.

- RELIABLE WATER, AIR AND DUST SEALENT
- HIGHLY CONFORMABLE AND VISCOELASTIC
- ABSORBS THERMAL EXPANSION & COLD CONTRACTION
- LESS TIME REQUIRED FOR TOUCH-UPS AND CLEANING
- SPOT WELDING WITHOUT SHEET METAL DISTORTION
- RELIABLY REPLACES SCREWING, RIVETING, AND SOLDERING

Applications

YOUR SPECIFICATIONS + OUR VISION = INFINITE POSSIBILITIES

Automotive, Bus & Truck Manufacturing

External Decorative Strips | Plaques | Emblems |Spoilers | Wheel Arch Trims | Rain Sensors GPS Antennas|Interior Trim| Mirrors| Skylights | Lighting Elements | Floor Protection Roof Construction| Roof Windows Running Boards| Air Grids | Trailer Profiles |etc.

Electronics

Mobile Phones | Telecommunication Systems | Touchscreens | LCD Displays | Televisions Household Appliances | Battery Packs | Integrated Circuit Boards | EMI/RFI Shielding Gaskets | Pads | Heat Sinks Within Devices | Junction Boxes | Fastening of Ribbon Cables

Sign Industry

Illuminated Signs | Glass, Acrylic, and Translucent Signs and Displays | 3D Elements Traffic Signs | Securing Large Panels | Single Letters | Outdoor Signs | Identification Plate Displays | Translucent Polycarbonate Bonding | Lighting Elements Mounting | Banners

Glass & Window Construction

Water- and Airtight Seals | Structural Glazing | Spacer Tape | Extruded Profiles Gap Filling | Combining Glass Layers | Bonding Glass Panels to Metal Frames Windowpanes | Joining Polycarbonate & Glass | Sealant Strips | Shower Cabins

Solar Industry

Frame Bonding | Attach Mounting Rails | Secure and Seal Junction Boxes | Components Mirrors | Reflectors | Vapor Diffusion | Die-Cuts Fully Integrated Into Production

Construction, Metal & Plastic Fabrication

Securing Panels | Sealing | Door Fittings | Door Plates | Protection Profiles Duct Sealing | Machinery Cases and Cabinets | Siding | Plastic Films | HVAC Die-Cuts for Moulded Plastic Components | Skylights and Dome Windows

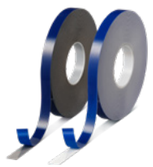
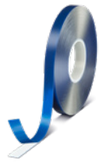
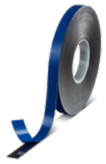
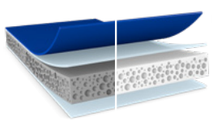
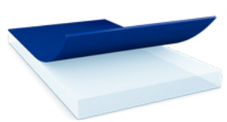
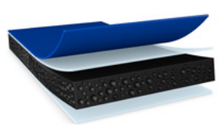
volzAcrylicFoam

	Thickness (mm)	Color	Liner	Peel Adhesion (N/25 mm)	Shear Strength (kgf/cm²)	Temp. Resistance	Long-Term Temperature	Low Surface Energy	Automotive Bus & Truck Manufacture	Sign Industry	Solar Industry	Electronics	Glass & Window Construction	Construction, Metal & Plastic Fabrication
73060 PV1	0,60	Black (04)	Film	39,23	9	+90°C	+70°C	√	√			√		√
73080 PV1	0,80	Gray (55)	Paper/ Film	51,48	7	+150°C	+90°C	√						
73110 PV1	1,10	White (08)	Paper/ Film	56,39	10	+90°C	+70°C	√	√			√		√
73150 PV1	1,50	Gray (55)	Paper/ Film	61,29	10	+90°C	+70°C	√	√			√		√
74025 PV1	0,25	Clear (00)	Film	-	-	+150°C	+93°C			√	√		√	√
74040 PV1	0,40	Gray (55) White (08)	Paper/ Film	34,90	6	+150°C	+93°C		√			√		√
74050-00 PV1	0,50	Clear (00)	Paper/ Film	24,52	5	+150°C	+93°C			√	√			√
74050 PV2	0,64	Clear (00)	Film	62,50	11	+200°C	+150°C		√	√		√	√	
74050 PV3	0,50	Clear (00)	Film	50,00	-	+160°C	+160°C			√			√	√
74060S PV1	0,60	White (08)	Paper/ Film	29,42	5	+150°C	+90°C		√	√	√		√	√
74080S PV1	0,80	White (08)	Paper/ Film	31,88	5	+150°C	+90°C		√	√	√		√	√
74100-00 PV1	1,00	Clear (00)	Film	29,42	5	+150°C	+93°C		√	√	√		√	√
74110 PV1	1,10	White (08)	Paper/ Film	53,94	8	+150°C	+90°C		√			√	√	√
74150 PV1	1,50	Clear (00)	Film	31,88	7	+150°C	+93°C			√	√		√	√
74200 PV1	2,00	Clear (00)	Film	36,75	9	+150°C	+93°C			√	√		√	√
74300-00 PV1	3,00	Clear (00)	Film	39,23	9	+150°C	+93°C			√	√		√	√
75110 PV1	1,10	Black (04)	Paper/ Film	46,58	-	+150°C	+93°C	√	√	√			√	√
76040S PV1	0,40	Gray (55)	Paper/ Film	26,97	5	+150°C	+90°C		√	√	√		√	√
76060 PV1	0,60	Gray (55)	Paper/ Film	39,27	6	+150°C	+93°C		√			√	√	√
76080 PV2	0,94	Gray (55) White (08)	Film	62,5	11	+150°C	+150°C		√	√		√		
76080-55 PV1	0,80	Gray (55)	Film	49,03	8	+150°C	+93°C		√			√		√
76080PS PV1	0,80	Gray (55)	Paper/ Film	31,87	5	+150°C	+90°C		√	√	√		√	√
76080S PV1	0,80	Gray (55)	Film	31,88	5	+150°C	+90°C		√	√	√		√	√
76110 PV1	1,10	Gray (55)	Film	46,58	7	+150°C	+93°C		√			√		√

*Technical data provided to the best of our knowledge, without obligation. A suitability test on original products prior to use is recommended.

tesa® ACX^plus are high performing acrylic foam tapes that provide powerful, long-lasting bonds, even on materials with different surface characteristics.

GOLD CONVERTER PARTNER

	tesa® ACX^plus 704x	tesa® ACX^plus 705x	tesa® ACX^plus 706x	tesa® ACX^plus 707x
				
Key features	• Invisible, seamless bonding of decorative elements • Both colors adapt very well to metal and plastic surfaces • Avoids reflections on translucent material	• Constructive bonding of transparent and translucent materials • Ideal for glass and acrylic substrates	• High adhesion levels on hard-to-bond substrates • Resistance to plasticizer migration	• Outstanding cold shock performance down to –40 °C* • Best outdoor performance in combination with our adhesion promoters*
Product design				
Adhesive characteristics	Filled pure acrylic	Solid pure acrylic	Foamed tackified acrylic	Foamed pure acrylic
Thickness [µm]	500, 640, 1000, 1200, 2000	500, 1000, 1500, 2000, 3000	500, 800, 1200, 1500	500, 1000, 1500, 2000, 2400, 2900, 3900
Density [kg/m³]	ca. 790	ca. 1030	ca. 825	ca. 710
Color	Gray & white	Transparent	Black	Black
Liner	PV26, PV28, PV48	PV12, PV26, PV28, PV48	PV22, PV24	PV22, PV24
Recommended for	Indoor	Indoor & outdoor	Indoor	Indoor & outdoor

* applicable for all tapes ≤ 2000 µm

Liner	PV12	PV22	PV24	PV26	PV28	PV48
Category	Siliconized PET	PE-coated paper	Siliconized film	PE-coated paper	Silicone-free film	Silicone-free film
Color	Transparent	White	Blue	White	Blue	White
Branding	No	Yes	No	No	No	Yes

As a reliable tesa® Gold Converting Partner, VOLZ® TAPES offers the full ACX^plus product assortment, as rolls, spools, and also in custom, die-cut parts.

		Dynamic adhesion performance			Static shear	Temperature resistance
Product	**Thickness [µm]**	**90° peel adhesion [N/cm]**	**Normal tensile strength [N/cm²]**	**Shear strength [N/cm²]**	**Static shear strength at 23 °C / 70 °C [g]**	**Short / long term temperature [°C]**
tesa® ACX^plus 704x						
tesa® ACX^plus 7042	500	24	90	190	2000 / 500	200 / 110
tesa® ACX^plus 7043	640	29	95	170	2000 / 500	200 / 110
tesa® ACX^plus 7044	1000	36	100	125	2000 / 500	200 / 110
tesa® ACX^plus 7045	1200	38	105	120	2000 / 500	200 / 110
tesa® ACX^plus 7048	2000	44	115	105	2000 / 500	170 / 110
tesa® ACX^plus 705x						
tesa® ACX^plus 7054	500	18	90	40	1250 / 1000	200 / 100
tesa® ACX^plus 7055	1000	24	100	35	750 / 500	200 / 110
tesa® ACX^plus 7056	1500	26	100	35	750 / 500	200 / 110
tesa® ACX^plus 7058	2000	27	60	30	500 / 250	200 / 110
tesa® ACX^plus 75530	3000	30	30	30	500 / 250	200 / 110
tesa® ACX^plus 706x						
tesa® ACX^plus 7062	500	32	110	150	1500 / 250	170 / 70
tesa® ACX^plus 7063	800	40	110	130	1500 / 250	170 / 70
tesa® ACX^plus 7065	1200	48	110	100	1250 / 250	170 / 70
tesa® ACX^plus 7066	1500	54	110	85	1250 / 250	170 / 70
tesa® ACX^plus 707x						
tesa® ACX^plus 7072	500	27	60	85	1750 / 1000	220 / 120
tesa® ACX^plus 7074	1000	33	55	50	1500 / 1000	220 / 120
tesa® ACX^plus 7076	1500	34	50	45	1250 / 750	220 / 120
tesa® ACX^plus 7078	2000	37	45	40	1250 / 750	220 / 120
tesa® ACX^plus 70725	2400	37	40	35	750 / 500	220 / 120
tesa® ACX^plus 70730	2900	38	40	35	750 / 500	220 / 120
tesa® ACX^plus 70740	3900	38	35	30	500 / 250	220 / 120
tesa® flameXtinct 4506x						
tesa® flameXtinct 45063	800	32	75	60	1000 / 250	*
tesa® flameXtinct 45065	1200	37	75	55	1000 / 250	*

* Temperature resistance test for tesa® flameXtinct 4506x still pending

Unlock Superior Bonding with the Right Surface Preparation

Not all surfaces are created equal when it comes to bonding. The key factor? Surface energy.

Substrates with high surface energy—like metals or glass—are naturally easier to bond to. On the other hand, low surface energy materials—such as plastics like polypropylene or polyethylene—can be much more challenging. That's where surface preparation and the right adhesive technology come into play.

Acrylic foam tapes rely on a process called "wet-out" to achieve strong, lasting adhesion. This refers to how well the tape flows across and covers the surface, creating maximum contact. The better the "wet-out", the stronger the bond. Surfaces with high energy promote this contact easily, resulting in optimal adhesive performance.

For low surface energy substrates, special surface treatments may be needed to enhance bondability. Techniques such as solvent cleaning, abrasion, priming, flame treatment, plasma treatment, or corona discharge can significantly improve surface energy—making them ready for strong, reliable adhesion.

Proper surface preparation unlocks the full bonding power of acrylic foam tapes — ensuring strength, durability, and performance in every application.

Relative Surface Energy Table

High Surface Energy

Zinc, Aluminium, Lead, Copper, Stainless Steel, Glass, Anodized Aluminum

Medium Surface Energy

Nylon, Acrylic, PVC, Kapton®, Epoxy Paint, ABS, Polycarbonate, Polyester

Low Surface Energy

Polyethylene, Teflon®, EVA, Tedlar®, Silicone, Polypropylene

Surface Preparation for Optimal Bonding

Ensure all bonding surfaces are **clean, dry, and free from dust, grease, and loose particles.** Proper surface preparation is essential for achieving maximum adhesive performance.

Suggested Application Temperature

For **optimal performance**, apply the adhesive at temperatures between **20°C and 36°C**. Avoid application below 10°C, as lower temperatures may affect bonding strength.

Application Pressure for Optimal Bonding

Apply firm, even pressure across the entire bonding area to achieve maximum bonding strength. This ensures proper adhesive "wet-out" and full surface contact.

Acrylic Foam tape is pressure sensitive. The bond performance improves significantly with increased surface contact under pressure. The **recommended pressure** is **100 kPa (15 PSI).**

Bond Strength Progression

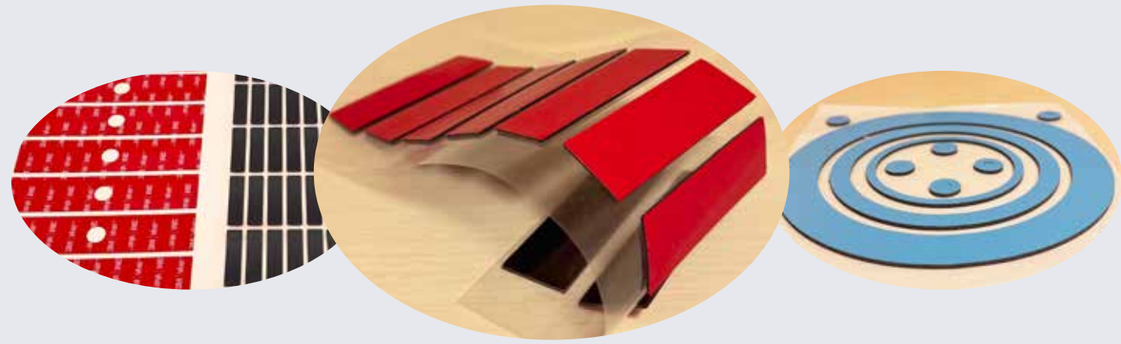
50% of final bond strength is reached after 20 minutes, and 90% after 24 hrs. **100% bonding** strength occurs only after **72 hours.**

Avoid applying significant load or stress to the bonded area until the bond strength is at 100%.

Acrylic Foam Die-Cuts: Precision Meets Performance

Die-cut parts made from acrylic foam tapes offer a powerful combination of performance, flexibility, and ease of use—making them an ideal solution for both manual and automated production.

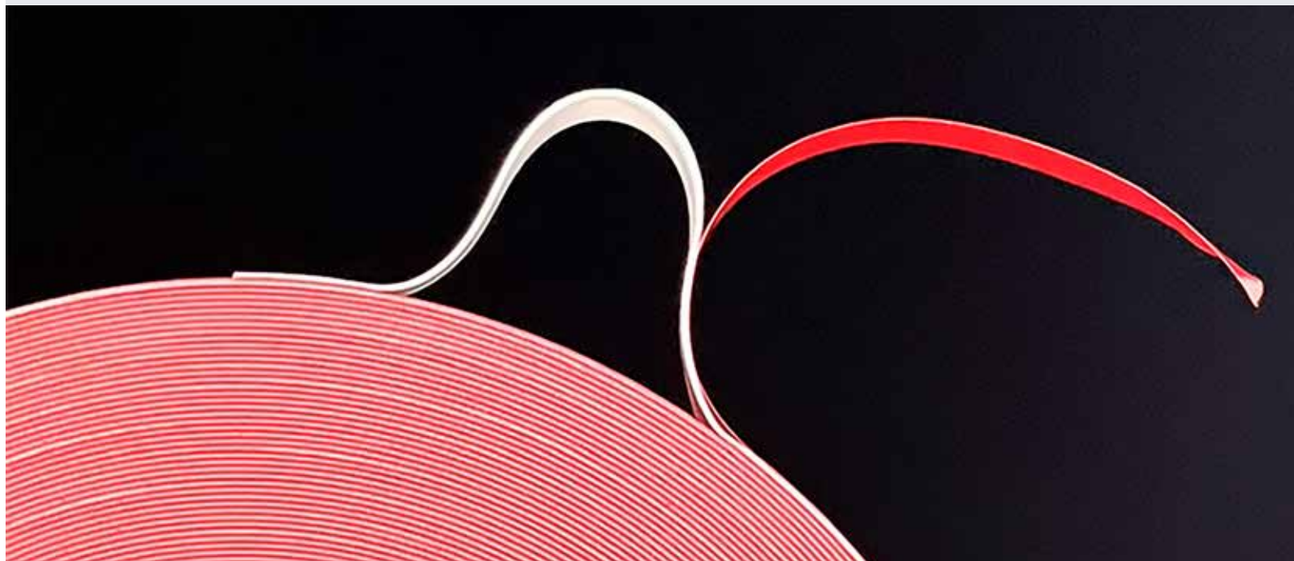
Whether you're bonding junction boxes in solar panels, GPS modules in vehicles, or displays in smartphones, acrylic foam die-cuts deliver clean, consistent, and high-strength bonding—all with quick, hassle-free application.



Thanks to their precise fit, extremely strong adhesion, and rapid processing, die-cut parts are a smart choice for industries where speed and reliability matter most.

Available as individual pieces or on rolls, these die-cuts integrate seamlessly into a wide range of manufacturing work-flows, from small-batch, manual assembly to fully automated lines.

Ask us how custom, acrylic foam, die-cut parts can streamline your production and elevate product performance.



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