

OVERLAP SPLICE KIT FOR REINFORCED SECTION

Bond a Band Transmissions Ltd offer a patented system of producing a reliable joint on our range of reinforced extrusions both round and V. The only effective way of maximising joint performance without physically joining the reinforced core is by producing an overlap joint. This involves producing a finished joint with both reinforced cores laying side by side within the finished belt joint area giving maximum shear strength. Our aim was to supply in kit form all that's needed allowing the end user to complete a finished joint in minimal time on site. Our unique system utilises the benefits of hot air rather than heated platens to deliver heat directly to required area, this use of hot air avoids contamination within the joint area which potentially can cause joint failure. Each

kit comes complete with all equipment and one set of tooling specific to the section you use. Additional tooling for all reinforced sections available off the shelf.

Welding Procedure

- (a) Determine the finished length of belt
- (b) Prepare both ends using the template and trim excess material away
- (c) Place in the hand clamp, insert heat gun and apply heat
- (d) When required heat is applied remove gun and squeeze the pliers closed, leave joint to cool then remove excess flash with tools provided.

For further details and advise on this equipment please contact our sales department or technical department who will recommend suitable equipment for your application.



Manufacturers
& Worldwide
Distributors
of
Polyurethane
Extrusions
& Belting
Products

Welding Equipment for All Extruded Products

POLYURETHANE/POLYESTER WELDING EQUIPMENT

We offer you, the customer, three versions of our Polyurethane/Polyester welding equipment for both bench top operation which rarely require the welding of belts on the drive itself and lightweight units for confined areas requiring the fitting of belts to the application.

WELDING JIG UNIT

For bench top use, and occasional or continual replacement of belts we would recommend our Welding Jig unit. Available as a complete kit comprising of a

thermostatically controlled heating element on a very durable aluminium base assembly, belt clamp and associated hand tools for preparing belt length and trimming. Method of welding is to produce a 'butt' weld joint by melting each end of the extrudate simultaneously, then once molten, bring the two ends together and allow to cool, remove the flash and belt is ready for use. Supplied in either 230V or 110V, they are portable allowing the user to complete and repair belts directly on the application. A full instruction sheet is supplied with every unit giving a step by step guide to performing a successful weld.

WELDING IRON UNIT

For the more difficult to reach, confined areas we would recommend our Welding Iron unit. Each kit comprise of a 75W/230V OR 110V iron with an in line voltage regulator to give temperature control, fitted with a specially designed blade tip suitable for all sections of belting. In addition you have the option of either our plastic belt clamp or metal clamp unit, also with both sets of trimming clippers are included with the optional extra plastic. Each kit is supplied in a plastic case with a choice of plastic or metal clamp unit for the more demanding environment, (prices do vary depending on which one you choose) and



Bond-a-Band 
TRANSMISSIONS LIMITED

Holmfield Industrial Estate, Holmfield, Halifax,
West Yorkshire HX2 9TP.

Tel: +44(0)1422 249777 Fax: +44(0)1422 249616

www.bondaband.com
sales@bondaband.com

Distributed By:



Bond-a-Band
TRANSMISSIONS LIMITED

Polyurethane/
Polyester
Extrusions

Polyurethane
Sheet/Film





EXTRUDED POLYURETHANE PROFILE

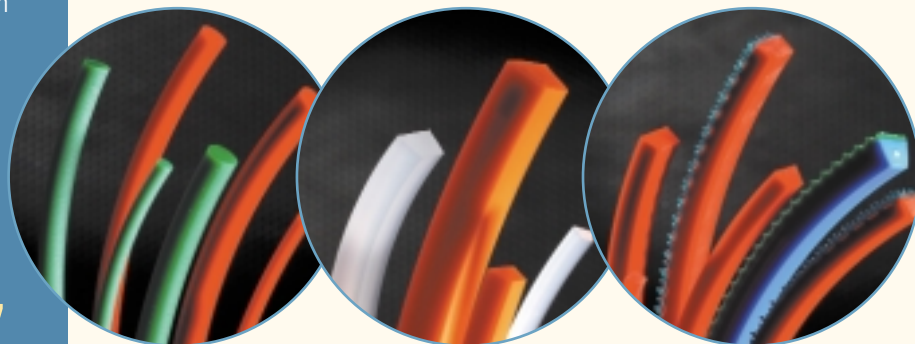
We have a wealth of experience in the manufacture of Polyurethane belting. We continue to expand the business to cover all aspects of thermoplastic transmission belting and related products. Our ability to control all areas of manufacturing supplies our customers with a level of service expected in today's just in time culture.

HIGH PERFORMANCE GRADE POLYURETHANES			
GRADE	DESCRIPTION	CHARACTERISTICS	TYPICAL USES
82 shore A All colours	High quality grade Thermoplastic Elastomer	High co-efficient of friction, exceptional wear, chemical resistance and recovery properties.	Transmission drive belting light load, conveyance application. Seals wear resistant wiper strips.
88shore A Green only	High quality grade Thermoplastic Elastomer	As above.	Transmission drive belting light to medium load.
92 shore A All colours	High quality grade Thermoplastic Elastomer	As above.	Transmissions drive belting medium load. Used in high abrasive environment.. e.g.shot blasting cab.



Manufacturers and Worldwide Distributors of Polyurethane Extrusions & Belting Products

Contact:
sales@bondaband.com and www.bondaband.com



The company with the right profile

Bond-a-Band Transmissions Ltd is a family run business specialising in the manufacture of Polyurethane extrusions and belting products.

We commenced business over 30 years ago with a material that was relatively new and untried to grow into one of the most experienced and knowledgeable companies in the field, with this is your guarantee of a quality product backed by a quality sales and service team...

We have an extensive range of belting in stock most of which can be delivered 'same day' but we also offer our customers a bespoke service to suit their requirements... call us anytime on 01535 643123 we're only too happy to advise.

Bond a Band Transmissions Ltd, manufacturers of a wide and varied range of Polyurethane thermoplastic extrusions. Including within this range is our standard transmission drive belting in Round Solid, Round Tubular, V profile and special profile extrusion. Polyurethane is an extremely tough durable raw material ideally suited and resistant to high levels of abrasion along with excellent chemical properties.

For further details and advice on these products please contact our Sales/Technical department for advice on :

+44(0)1422 249777

POLYURETHANE EXTRUDED BELTING SOLID SECTION

STANDARD ROUND PROFILE RANGE AVAILABLE

ROUND SECTION	HARDNESS	SURFACE FINISH	CO-EFFICIENT OF FRICTION	DIAMETERS AVAILABLE.	OUR REF NO.
CLEAR	82A	SMOOTH	0.5-0.7	2, 2.5, 3, 3.5, 4, 4.7, 5, 6, 6.3, 7, 8, 9, 9.5, 10, 12, 12.5, 15, 18, 20mm	RSCS82 DIA-LENGTH
Orange	82A	SMOOTH	0.5-0.7	2, 2.5, 3, 3.5, 4, 4.7, 5, 6, 6.3, 7, 8, 9, 9.5, 10, 12, 12.5, 15, 18, 20mm	RSOS82 DIA-LENGTH
Green	89A	ROUGH	0.4-0.6	2, 2.5, 3, 3.5, 4, 4.7, 5, 6, 6.3, 7, 8, 9, 9.5, 10, 12, 12.5, 15, 18, 20mm	RSGR92 DIA-LENGTH
Red	92A	SMOOTH	0.4-0.6	2, 2.5, 3, 3.5, 4, 4.7, 5, 6, 6.3, 7, 8, 9, 9.5, 10, 12, 12.5, 15, 18, 20mm	RSRS92 DIA-LENGTH
Blue	82A	SMOOTH	0.5-0.7	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15mm	RSBS 82 DIA-LENGTH
White	82A	ROUGH	0.5-0.7	4, 5, 6mm	RSWR82 DIA-LENGTH

PROPERTIES

Exceptional abrasion resistance, excellent oil and chemical resistance (See additional information). Outstanding recovery properties high coefficient of friction made endless with ease on site using Bond-a-Band heat welding equipment.

APPLICATIONS.

Textile Drives, Lineshaft conveyor drives, Transfer conveyor drives, Light drives, Tile or Brick Industries, Food industries (food contact approval), Pharmaceutical Industries plus a wide and varied range engineering applications.

EXTRUDED POLYURETHANE TUBULAR SECTION

TUBULAR SECTION PROFILE

SECTION	HARDNESS	COEFFICIENT OF FRICTION	DIAMETERS AVAILABLE	OUR REF. No.
Circle with center dot	82A	0.5 - 0.7	5, 6, 8, 10, 12mm	RTCS82 DIA-LENGTH
Circle with center dot and outer ring	82A	0.5 - 0.7	5, 6, 8, 10, 12, 12.5mm	RTRS82 DIA-LENGTH
Circle with center dot and outer ring (yellow)	92A	0.4 - 0.6	4.7, 6.3, 8, 9.5, 12mm	RTYS92 DIA-LENGTH
Circle with center dot and outer ring (H)	All Aluminium	N/A	To suit 5, 6, 8, 9, 10, 12, 12.5mm belt Dia.	CONS.
Circle with center dot and outer ring (square)	92A	0.4 - 0.6	One size only	SPRS92-D TUBE LENGTH

APPLICATIONS.

Live Roller Conveyors, Medium Duty Power Transmission, Transfer Conveyors, Misaligned Shaft Drives.












Bond-a-Band
TRANSMISSIONS LIMITED



For further details and advice on these products please contact our Sales/Technical department for advice on :

+44(0)1422 249777

EXTRUDED 'V' PROFILE POLYURETHANE BELTING SOLID & REINFORCED

'V' SECTION PROFILES.				
SECTION	HARDNESS	COEFFICIENT of FRICTION	SIZES AVAILABLE	OUR REF No.
 CLEAR	82A	0.5-0.7	6X4 7X4 8X5 Z, M, A, B, C	VSCS82-SIZE LENGTH
	82A	0.5-0.7	6X4 7X4 8X5 Z, M, A, B, C	VSOS82-SIZE LENGTH
	82A	0.5-0.7	DM, DZ, DA, 12mm	VSOS82-SIZE LENGTH
	92A	0.4-0.6	Z, M, A, B, C	VSRS92-SIZE LENGTH
 GRIP TOP	82A Top 92A Base ST. But any base available	N/A	Z, M, A, B, C	Ask sales for code
 SUPER GRIP TOP	70A Top 92A Base ST But any base available	N/A	Z, M, A, B, C	Ask sales for code
 WHITE	82A	N/A	Z, M, A, B, C	Ask sales for code
 WHITE DIAMOND TOP	82A	0.5 - 0.7	A, B, C	Ask sales for code
 WHITE DIAMOND TOP	82A	N/A	A, B, C	Ask sales for code
OTHER SECTIONS AVAILABLE. PLEASE CONTACT US FOR DETAILS ON A VAST ARRAY OF SECTIONS NOT LISTED INCLUDING RIDGE TOP SECTIONS AND SPECIAL PROFILES.				

All standard V Profiles are available in coil format as follows: 6x4, 7x4, 8x5, Z, M, A Sections available in 30mtr, 50mtr or 100mtr boxes most EX STOCK B and C section in 30 or 50mtr boxes mostly EX STOCK.

Special Profiles

We manufacture and offer a special profile service to customers requirements with a modest tooling charge due to our in house EDM die cutting service, this allows us to quickly and cost effectively cover most profiles which are possible to extrude. Alternatively we have approximately 200 special profile sections to date which may meet your needs, please contact us with your requirements.

WELDED ENDLESS BELTS

Bond a Band Transmissions Ltd, specialise in the manufacturing of welded endless belts and twisted replacement belts to your requirements. Available in any colour and hardness to any quantity required.

With all our products quality ensures success, therefore all manufacturing techniques have been specifically designed by ourselves to achieve maximum product quality. The use of our exclusive in-house welding equipment allows us to optimise parameters to give trouble free welds.

We manufacture to any quantity required, no matter how large or small.

Please contact our sales department for a quote on what you require.

TWIST LINK REPLACEMENT BELTS

The inclusion of our range of twisted belts are used primarily for quick replacement line shaft drive belts maintaining minimum downtime and maximum productivity.

The simplistic design ensures quick replacement of any worn endless belts in seconds until scheduled maintenance can be performed.

Usually allow for tension of 5% on endless belts and 15% on twisted belts. If unsure of correct length required simply supply pulley diameters and pulley centers.



Available in any quantity and length up to 1.5mtrs, please ask our technical department if you have any questions.

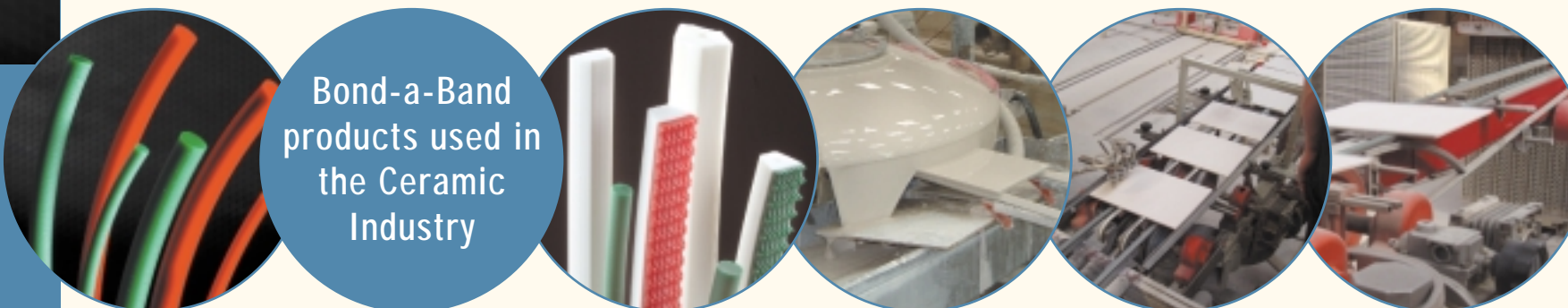
Contact:
sales@bondaband.com
and
www.bondaband.com

Bond-a-Band
TRANSMISSIONS LIMITED

Bond-a-Band
TRANSMISSIONS LIMITED

For further details and advice on these products please contact our Sales/Technical department for advice on :

+44(0)1422 249777



Bond-a-Band
products used in
the Ceramic
Industry

For further details and advice on these products please contact our Sales/Technical department for advice on :

+44(0)1422 249777



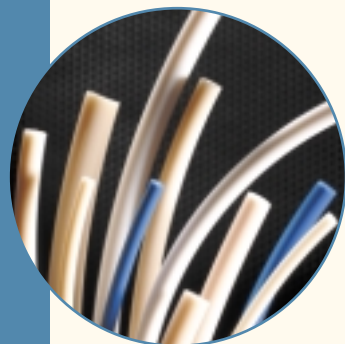
Polyester Extruded Belting Solid and Reinforced.

Our Polyester range consists of two basic types of product, one being solid section profiles, the other reinforced section providing minimal stretch for applications such as can production lines. Both types are available in two hardness grades 40D and 55D. Our reinforced profiles incorporate a high tensile cabled Polyester fibre core or alternatively cabled Kevlar core providing maximum strength, minimal stretch.

For producing endless belts out of reinforced profiles requires specialised equipment to maintain maximum strength of the reinforced belt structure. To maximise this Bond-a-Band Transmissions Ltd offer a patented overlap welding system which is compact, light, user friendly unit providing everything needed to produce a reliable belt joint. Polyesters excellent abrasion and chemical resistance makes this product suited to applications such as brick and tile manufacturers. If you have any specific requirements please contact our Sales/Technical department who will advise you on the most suitable grade and profile for your application.

For further details and advice on these products please contact our Sales/Technical department for advice on :

+44(0)1422 249777



EXTRUDED ROUND AND 'V' PROFILE POLYESTER BELTING SOLID & REINFORCED

POLYESTER PROFILES				
SECTIONS.	HARDNESS	COEFFICIENT OF FRICTION	SIZES AVAILABLE	OUR REF. AVAILABLE.
	40D	0.4-0.6	2, 3, 4, 5, 6, 6.3, 8, 10, 12, 15.	RPCS40-DIA LENGTH
	55D	0.3-0.5	6.3, 8, 9.5, 10, 12, 15.	RPCS55-DIA LENGTH
	40D	0.4-0.6	6.3, 8, 9.5, 10, 12, 15, 18, 20.	RPCR40-SIZE LENGTH
	55D	0.3-0.5	9.5, 12.5.	RPCK55-SIZE LENGTH
	40D	0.4-0.6	A, B, C.	VPSC40-SIZE LENGTH
	55D	0.3-0.5	A, B, C.	VPSC55-SIZE LENGTH
	40D	0.4-0.6	A, B, C.	VPSCR40-SIZE LENGTH

OTHER SECTIONS AVAILABLE.
PLEASE CONTACT US FOR DETAILS ON A VAST ARRAY OF SECTIONS NOT LISTED INCLUDING RIDGE TOP SECTIONS AND SPECIAL PROFILES.

HIGH PERFORMANCE GRADE POLYESTERS			
GRADE	DESCRIPTION	CHARACTERISTICS	TYPICAL USES
HYTREL 4056	Low modulus extrusion grade. Contains colour stable antioxidants.	Excellent low temperature properties. Excellent flexfatigue/creepresistance.	Hose jackets. Wire and cable jackets, film and sheet belting and seals.
HYTREL 5556	Medium modulus extrusion grade. Contains colour stable antioxidants.	Excellent low temperature properties. Excellent flex fatigue/creepresistance.	Tubing, hose, wire and cable jackets film sheet and belting.

Contact:
sales@bondaband.com
 and
www.bondaband.com

PROPERTIES.	TEST METHOD				GRADES	
	ASTM	ISO	DIN	UNITS	4056	5556
Tensile stress at break.	D638	527	53455	MPa	28.0	40.0
Elongation at break.	D638	527	53455	%	550	500
Tensile stress at 5% strain.	D638	537	53455	MPa	2.4	6.9
Tensile stress at 10% strain.	D638	537	53455	MPa	3.6	10.3
Flex. Mod.	D790	178	53457	MPa		
at - 40 c					155	760
at - 23 c					62	207
at - 100c					27	110
Impact strength, Izod notched at - 40c notched at - 23c	D256 Method A	180		J/m	No break	170
Abrasion resistance. Taber, CS- 17 wheel Taber, H - 18 wheel	D1044			mg/1000 rev.	3	6
					100	64
Initial tear resistance, dic C.	D1004	34		kN/m	101	158
Resistance to flex cut growth Ross (pierced).	D1052			Cycles to 5 x cut	>1 x 10	5 x 10
Melting point.	D3418	3146	53736	°C	150	203
Deflection temperature under flex load. at 0.5 MPa at 1.8 MPa	D648	75	53461	°C	54	90
				°C	N/A	49
Vicat softening point	D1525 Method A	306	53460	°C	212	180
Density.	D792	1183	53479	g/cm ³	1.17	1.20
Water absorption, 24 hour immersion.	D570	62	53495	%	0.6	0.5
Hardness, durometer D	D2240	868	53505	points	40	55
Met flow rate	D1238	1133	53735	g/10 min	5.3	7.5
Test conditions Temperature, C/load, kg.					190/2, 16	220/2, 16



Manufacturers and Worldwide Distributors of Polyurethane Extrusions & Belting Products



Double Loop/False Twist Bands.

Twisted extensible drive bands manufactured by ourselves for more than 50 years. Main application being the textile manufacturing sector, also used within the plastic bag manufacturing and printing industries.

We manufacture from Polyurethane monofilament and Lycra elasticated synthetic fibre. Supplied as an open length and made endless using the metal hook captive in one end. Hook when closed gives a smooth running belt.

Available to any length required up to 1500mm. Diameters from 5/32" (4mm) to 3/8" (10mm). Supplied in any quantity required.

When ordering or enquiring please specify the running length of your drive (measured length around the drive). If you have any questions please contact our Sales/Technical department who will be only too pleased to assist in any way possible.

For further details and advice on these products please contact our Sales/Technical department for advice on :

+44(0)1422 249777