Purpose Built Belting FOR THE PLASTIC EXTRUSION INDUSTRY



www.rainbowbelts.com

ABOUT US

Rainbow Rubber and Plastics. Inc. is a leading supplier of truly endless belting and rubber accessories for the North American market. Specializing in high wear applications, Rainbow supplies a range of products for the plastic extrusion market. Working closely with end users and original equipment manufacturers, we have developed a family of industry specific rubber components proven in durability and reliability. For more than 30 years Rainbow has become the leading supplier of original equipment and replacement belting for downstream Caterpuller, and Haul-Off equipment.



OUR ADVANTAGES

Quality and Reliability since 1968

Largest Caterpuller belt inventory in North America

Outstanding Customer Service including in-plant surveys and training

APPLICATIONS

Rainbow belts are truly endless belts designed for downstream extrusion equipment. Rainbow belts ensure the material does not slip or pull, avoiding damaged product or production loss as a result of belt failure.

Caterpuller equipment monitors conveying speed and tension throughout the manufacturing process used primarily in the production of:

BELTING FOR PLASTIC PIPE, PROFILE AND TUBING EXTRUSION

Rainbow supplies a truly endless belt designed for downstream extrusion equipment. Without seam or splice, our belt has become the industry leader.

Our rubber covers have excellent wear, high abrasion, and are tear resistant. For special applications, rubber compounds are used with heat and oil resistance. Due to the superior quality of our rubber compounds, our belts can operate on small pulleys without cracking or separation. Durometer (hardness) can be adjusted between 20 and 80 durometer per the customer's specifications.

MEDICAL TUBING





PIPE AND TUBING



COMPOSITE DECKING







WINDOW AND DOOR



RAINBOW BELT ENGINEERING

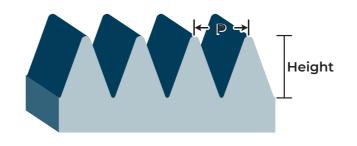
Machine Type Force Manufacture: ____ Diamet Speed: _ _ft/min Minimum Pulley Dia.: inches Pressure Roller Dia.: _inches Pulling Force -Pulling Force: lbs Pressure Roller/Unit: °n N.º Rolle n.º Pressure Units Total Pressure Units: Force/Unit: pressure **Belt Specifications** Top Cover: Smooth Transversal Grooves Top Grooves ____ #1 Hardness ____sh/A Bottom Cover: Smooth ____ Poly-V ____type Timing Belt __type Size: Width _____inch #2 Length _____inch Total Thickness inch Total Cover _____inch **PROFILE 1** PROFILE 2 **PROFILE 3** Inch R_ Inch A___ Inch Р Inch Р _ Inch _Inch #3 С Inch D Inch Pulled Material Current Belt Covered Cable PVC Rubber Metal Manufacture: _Rubber Tube-Pipe Wire PVC Other Type:_ Extruded Profile PVC Rubber Other Current Life: Pressure of Oil _yes type_____ Failure: abrasion Pressure of Solvent ves type_____ separation °C /°F Temperature break Size/Diameter _ inch Other: Customer Name: Address: Contact Name: Email: Telephone: Haul-Off Units in Plant: Fax: Yearly requirement: Rainbow Rubber & Plastics, Inc. 113 Dries Road Reading, PA 19605 (toll free) 888.438.2446 (fax) 610.685.7576 www.rainbowbelts.com

POLY-V BELTS & TIMING BELTS

Rainbow belts are made as a single piece. The rib sections are machine grooved into the base of the belt after the components have been vulcanized, unlike most belt manufacturers who will glue or vulcanize a rubber cover to a molded base belt.

*Custom ribs can be grooved per the customer's specifications.

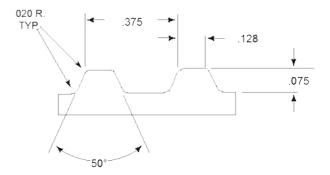
FOR POLY-V BELTS:



Pulley Category	Pitch (p) mm	Minimum Belt Height mm
J	2.34	12.00
L	4.70	14.00
М	9.40	21.50

Pitch and Height rates

FOR TIMING BELTS



Belt Pitch	Pitch	Description
XL	0.200	Extra Light
L	0.375	Light
Н	0.500	Heavy
ХН	0.875	Extra Heavy

Pitch rates

TECHNICAL DATA

TOP RUBBER COVER					
Туре	Color	Hardness °ShA	Abrasion resistance*	Grip	Features
NA	BLACK	55-65-75	• • • •	••00	Good balance between properties
М	BLACK	65	• • • •	• • • 0	As NA compound with better grip
PA	GREY	40-50-60	• • • 0	• • • •	Improved tear resistance - no staining
НВ	WHITE GREY	55-65	• • • 0	••00	HYPALON rubber: Good oil, chemical and heat resistance - no staining
NC	BLACK	65	• • 0 0	••00	NITRILE rubber: Very good oil and good heat resistance
NCB	WHITE	40-60	••00	••00	NITRILE rubber: FDA White non-marking
NCG	GREEN	55	• • • 0	• • • •	NIRTILE rubber: non-marking
Urethane	GREEN	70	• • • •	• • • 0	PU: excellent abrasion resistance
Sponge	WHITE	**	• • 0 0	• • • 0	FDA: non-marking NEO
Sponge	BLACK	**	• • 0 0	• • • 0	BLACK: non-marking NEO
Sponge	CREME	**	• • 0 0	• • • 0	CREME: non-marking NEO

* Data related to Compounds with comparable Hardness

Upon request: Excellent abrasion resistance, Nitrile low hardness and FDA compounds

TEXTILE CORE						
Туре	Material	Tensile strength N/mm	Elongation at break	Safety Factor	Max Elongation at 400 N/Wire	Max Elongation at 1000 N/Wire
SME 400	POLYESTER	400	11 %	10	4.13 %	n.a.

MINIMUM PULLEY DIAMETER					
Core Code	Carcass + bottom cover*	Top Cover Thickness	Minimum pulley diameter** mm		**
	mm	mm	40 °ShA	50 °ShA	60-70 °ShA
SME 400	8	7	100	120	150
		12	120	140	160
		17	140	160	200

* Minimum: 3 mm ** Only typical data for selection purposes. Not to be used for part or tool design.

TOLERANCES						
	%					
	± 0.5					
	± 0.75					
	mm					
	3 max					
	4 max					
THICKNESS			mm			
	With Respect to Nominal Value	-0/+2				
Not Grinded	With Respect to Uniformity	Top Cover > 60 °ShA	± 0.8			
		Top Cover < 60 °ShA	± 1.2			
Grinded	With Respect to Nominal Value	± 0.5				
	With Respect to Uniformity	± 0.1				

ADDITIONAL SERVICES & ACCESSORIES

Rainbow has a number of products to aid and complement our belting. Drawing on 30 years of experience and industry knowledge, these products have been developed to serve specific applications. Each has been tested and proven in the plastic industry.



PULLER CLEATS

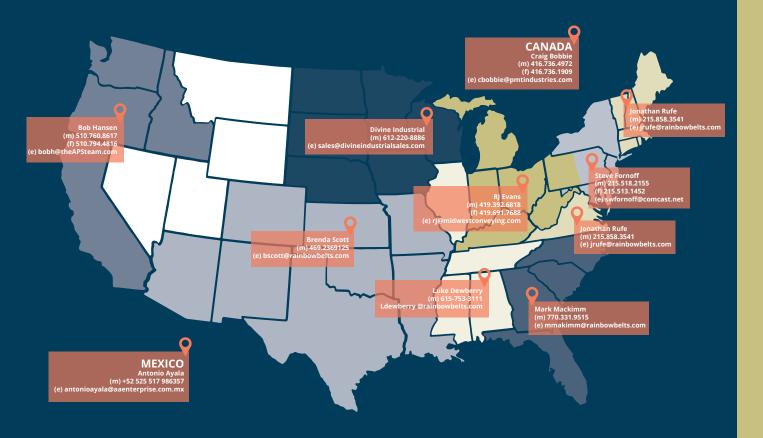
- Rubber and polyurethane cleats with and without metal plates
- Quick change / quick release
- Fixed / bolt-on
- Durometer: 40-80
- Molded for an exact fit with extruded profile

GASKETS

- Standard and custom sizes available
- Durometer: 40-70
- Silicone and rubber available







GET IN TOUCH

ADRESS: 113 Dries Road Reading, PA 19605 PHONE: 610.685.2800 Toll Free: 888.438.2446 FAX: 610.685.7574 EMAIL: info@rainbowbelts.com WEBSITE: www.rainbowbelts.com

