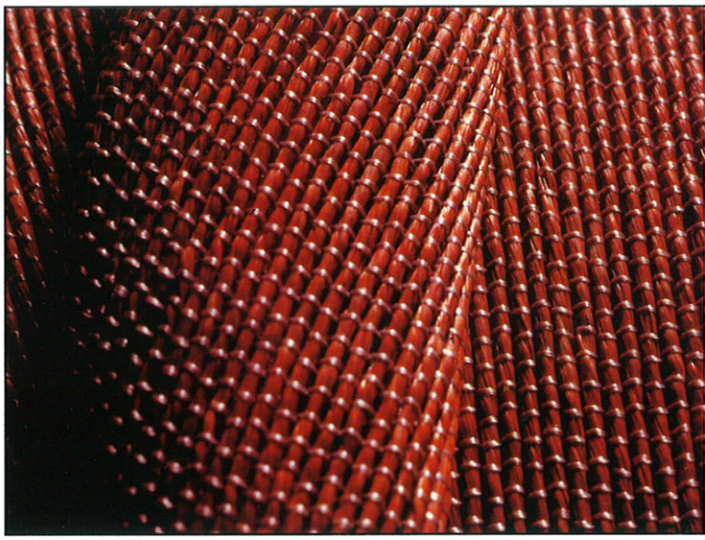


GF
CANADA

NGF CANADA Limited

NGF CANADA - A WORLD LEADER IN GLASS FIBER PRODUCTS.

NGF CANADA Limited, situated at Guelph in Ontario, is a leading manufacturer of rubber impregnated glass cords for the reinforcement of a wide range of polymeric products.

Our manufacturing expertise is based on more than 25 years experience of supplying high quality products for specialist applications. Amongst these are racing tires, industrial drive belts, escalator handrails, dryer felts; as well as hoses, extruded polymeric profiles, industrial brushes, and friction facings for automotive clutches and brakes.

Our process involves the impregnation of continuous glass fiber yarns with special latex formulations (RFL). This treatment prevents inter-filament abrasion of the glass filaments when in use, increases product life, and provides the basis for good adhesion of the glass yarn to SBR, EPDM, chloroprene, phenolic and other compounds. The treated yarns can be plied together to produce finished cords in a range of weights, diameters and tensile strengths.

Glass Cord is also available chopped into staple lengths under the product heading RICS.

RICS (Rubber Impregnated Chopped Strands) can easily be mixed as a reinforcement filler in rubber compounds or other composites.

NGF CANADA Limited is a subsidiary of NGF EUROPE Limited of St Helens, United Kingdom.
NGF EUROPE Limited is owned by NIPPON GLASS FIBER Co. Ltd. of Japan.

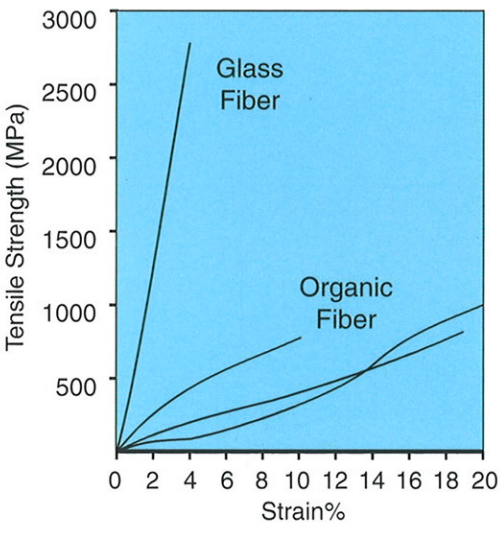
GLASS CORD PRODUCTS: PHYSICAL CHARACTERISTICS

GLASS CORD CONSTRUCTION	INITIAL TWIST TPI	INITIAL TWIST TPM	FINAL TWIST TPI	FINAL TWIST TPM	DIAMETER mm (nominal)	CORD WEIGHT gm/1000m (nominal)	LOSS ON IGNITION % (nominal)	TENSILE STRENGTH kg (nominal)	PACKAGE TYPE
EC10 330.1/0	-	-	-	-	0.5	400	17	26	93-C
EC10 330.1/0	-	-	1.5	60	0.5	380	13	25	9260
EC10 330.1/0	-	-	1.5	60	0.5	400	17	26	9235, 9260
EC10 330.1/0	-	-	2.5	100	0.5	400	17	25	9235
EC10 330.1/0	-	-	3.0	120	0.5	400	17	25	9235
EC10 330.1/0	-	-	1.5	60	0.5	420	21	26	9235
EC10 330.2/0	-	-	1.5	60	0.8	800	17	49	9235
EC10 330.3/0	-	-	1.5	60	1.0	1200	17	68	9235
EC10 330.3/0	-	-	2.0	80	1.0	1200	17	68	9235
EC10 330.4/0	-	-	1.5	60	1.2	1600	17	91	9235
EC10 330.1/3	1.5	60	2.0	80	1.0	1200	17	68	9260
EC10 330.1/3	3.0	120	2.0	80	1.0	1200	17	68	9235
EC10 330.1/4	3.0	120	2.0	80	1.2	1600	17	91	9260
EC10 330.1/5	1.5	60	1.0	40	1.4	2000	17	110	9235
EC10 330.3/5	1.5	60	1.0	40	2.5	6000	17	300	9260
EC10 330.5/5	1.5	60	1.0	40	3.0	10000	17	500	9260
RICS chopped strand; 3, 6 or 12mm	-	-	-	-	-	-	17	-	-

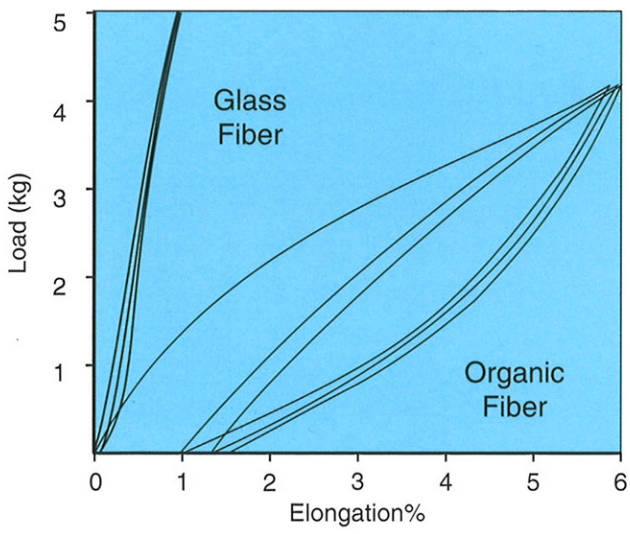
Notes:- 1. **Glass Cord constructions** are available in S or Z final twist.
2. **Package Type:** Glass Cord is supplied wound on three standard forms of packaging: **93-C** is a cardboard tube **9235** is a double flanged plastic bobbin; flange od 159mm **9260** is a double flanged plastic bobbin; flange od 190mm.

TYPICAL FIBER CHARACTERISTICS

STRESS: STRAIN CURVE

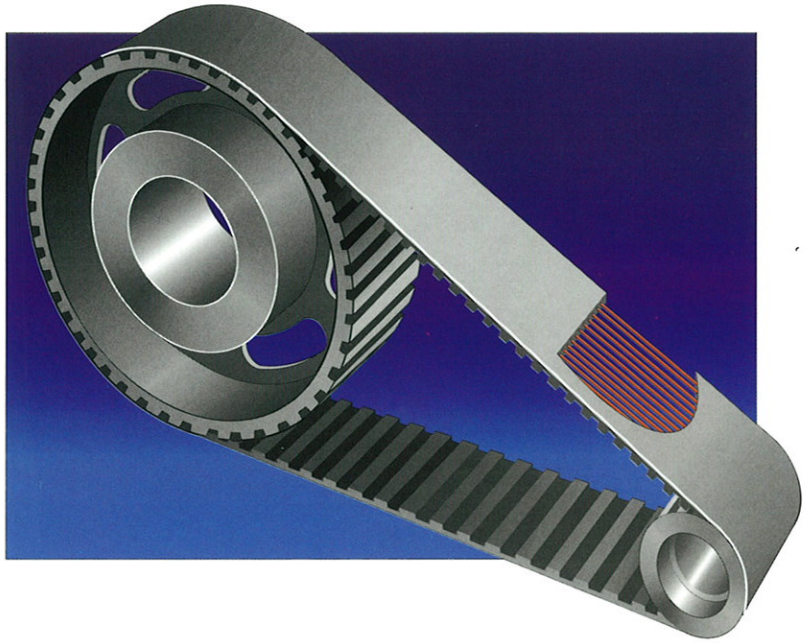


HYSTERESIS CURVE



Glass fiber has excellent stress: strain properties compared to many other reinforcement media.

ASK FOR GLASS CORD DATA SHEETS FOR FULL PRODUCT SPECIFICATIONS

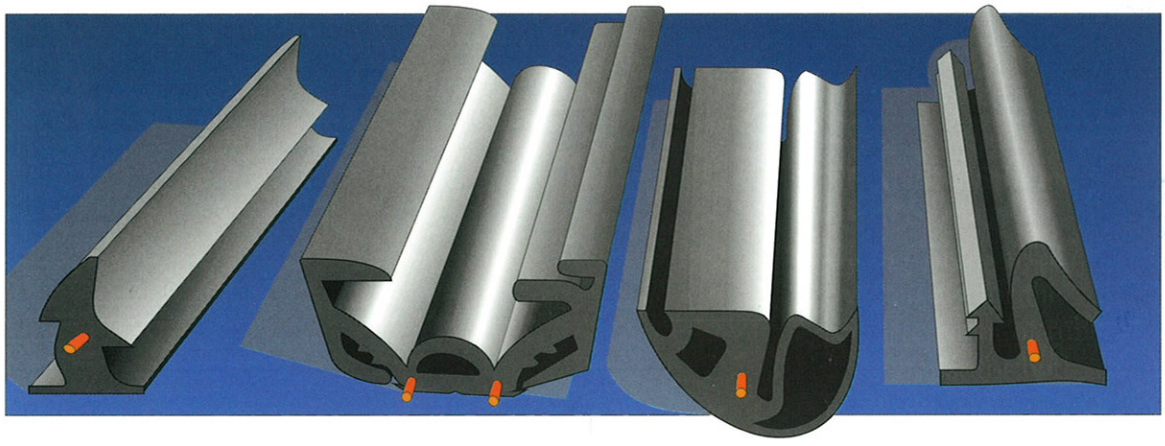


TRANSMISSION BELTS

Glass Cord is used extensively for the reinforcement of rubber drive belts, for both industrial and household appliance applications. It gives unrivaled dimensional stability where there is a critical need for synchronous transfer of power.

WOVEN FABRICS

Fabrics woven with Glass Cord give dimensional stability to complex molded products, such as escalator handrails. The excellent adhesive quality of rubber impregnated glass fabric gives added strength to handrail composites, preventing delamination and damage in use. Woven fabrics including Glass Cord are also used in dryer felts and conveyor belts.



RUBBER PROFILES, HOSE AND CABLE

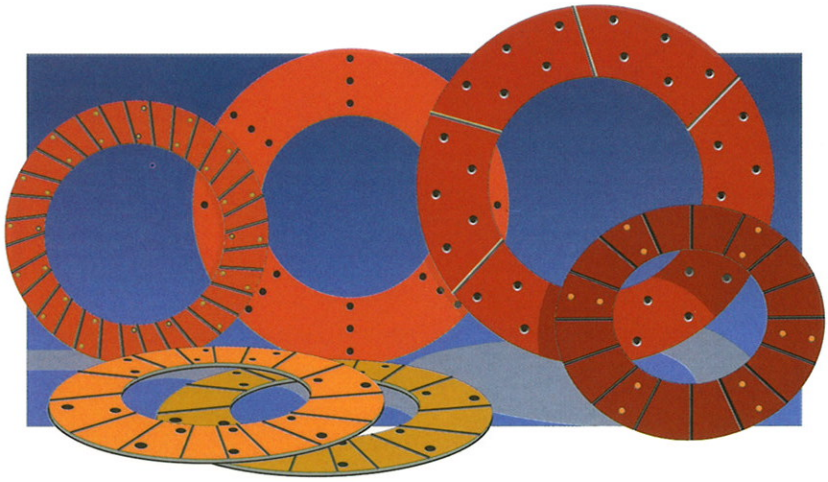
Rubber impregnated Glass Cord prevents stretching of extruded rubber profiles, reducing wastage during manufacture; and ensuring improved sealing in automotive and building applications. Glass Cord is also used to reinforce rubber hoses, and as a filler in electrical cables.

Rubber impregnated Glass Cord can be used in many other applications where stability and strength are needed to maintain the integrity and life of high quality polymeric products. Our Technical Advisory Service at Guelph is available to discuss and advise on any engineering application where Glass Cord can give added value.

THE UNIQUE REINFORCEMENT QUALITIES OF RFL GLASS CORDS GIVE MANY BENEFITS IN A WIDE RANGE OF APPLICATIONS

SOLID TIRES

Rubber Impregnated Chopped Strands (**RICS**) strengthen solid rubber tires, preventing chipping and prolonging life; particularly when used on rugged terrain.

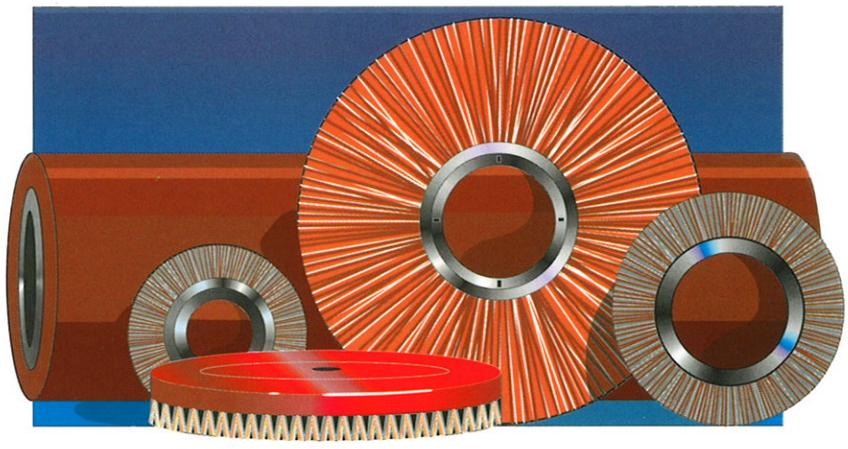


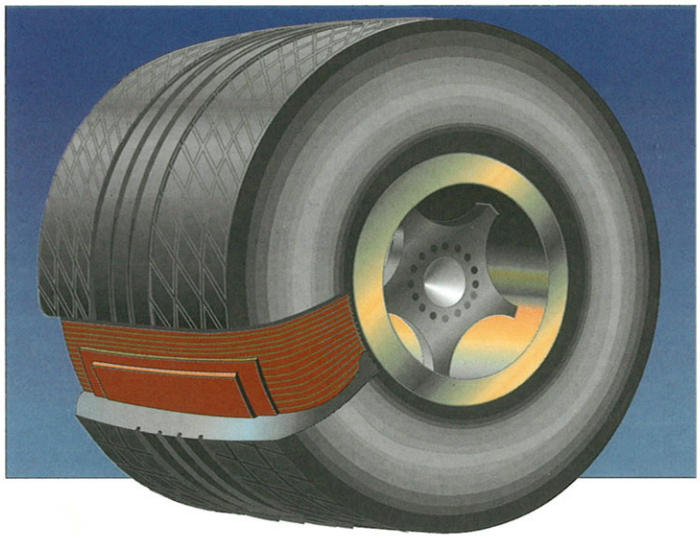
FRICTION FACINGS

When used in composite friction facings, glass yarns with added rubber treatment improve adhesion within the matrix, and give greater wear resistance and longer life to vehicle clutches and brakes.

INDUSTRIAL BRUSHES

Used as bristles for industrial brushes, the abrasive quality of cut Glass Cord will burnish metal without scratching. Good chemical resistance of glass also enables the application of acidic flux to metals.





TIRES

Woven into a fabric, or used on its own, in high performance pneumatic tires; Glass Cord reinforcement gives improved heat dissipation, greater tensile strength, increased tread life and a smoother ride.

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