NGF

NSG GROUP

Glass cord for Extruded Rubber Profile

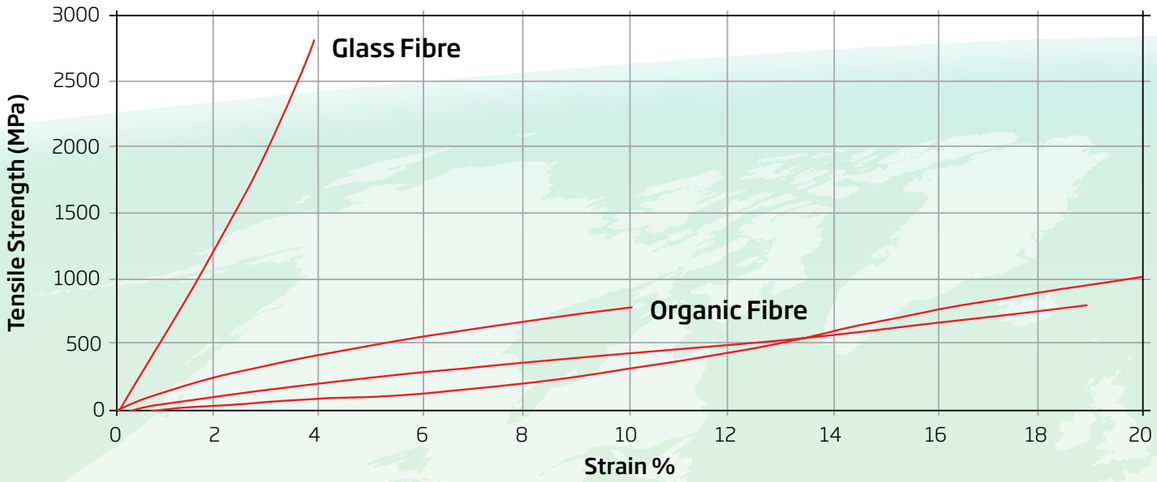
Characteristics of glass fibre:

NGF glass cord uses the unique properties of glass fibres to give strength and dimensional stability to polymeric products, particularly extruded rubber profiles for automotive sealing component or commercial window glazing strips.

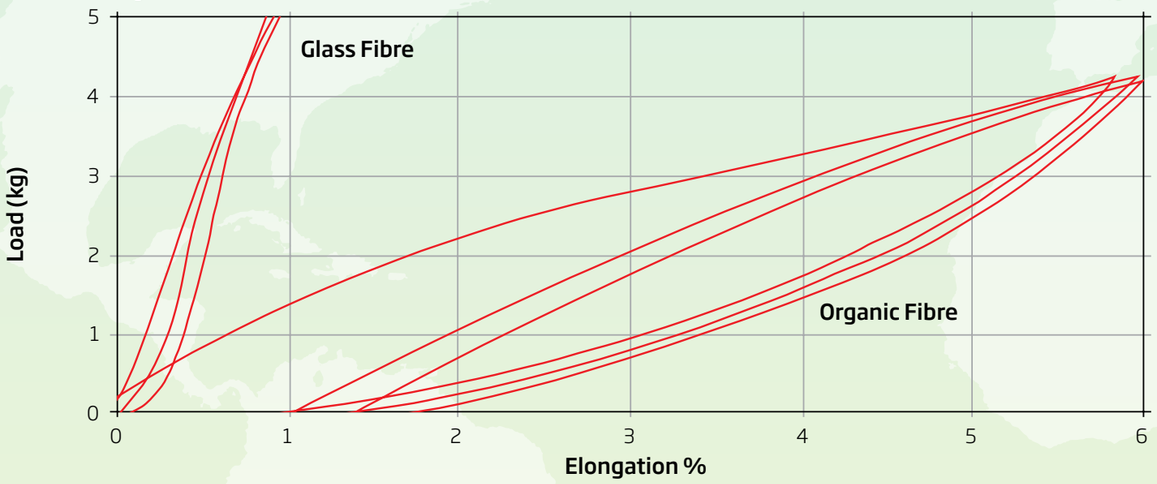
The chart below shows the low elongation and high tensile strength of the glass cord.

These properties prevent the profile from stretching during processing and provide dimensional stability to the final part to ensure accurate cut length and improved quality, as well as minimal long term viscous creep and shrinkage. These same properties make glass cord the optimal reinforcement for "tear beads" to facilitate the installation of profiles during final assembly.

Stress:Strain Curve



Hysteresis Curve



Cord Products: Features and Benefits

The standard cord is comprised of 1600 filaments of glass fibre which is impregnated with a treatment so that each filament is coated.

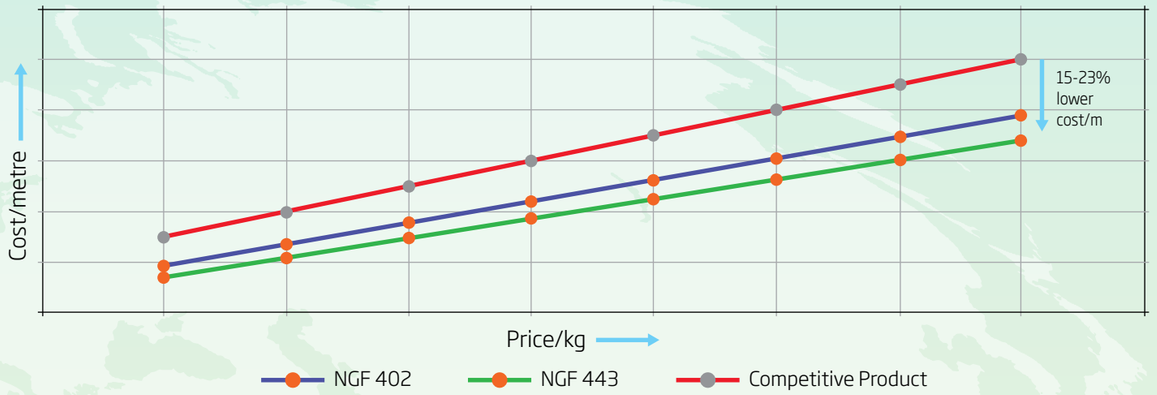
This treatment protects the filaments from abrasion and is formulated to provide adhesion to the polymer. The glass cord has very low elongation, even at cure temperatures, so when the cord bonds to the profile, the resulting composite will not stretch and the cord will not move within the profile. A range of treatments are available to meet specific end-use requirements (EPDM, SBR, CR, polyurethane, TPV, silicone) and different constructions/cord diameters may also be available.

NGF cords provide a low cost solution for reinforcing the profile and optimum value versus competitive products as shown in the graph below.

Based on our unique construction, NGF cords can provide 15-23% lower cost/meter at the equivalent price/kg.

Standard cords are available twisted onto double flanged plastic bobbins, or precision wound on cardboard tubes in an untwisted form. Full bobbins provide industry-leading lengths of up to 22,000m resulting in fewer changeovers, less downtime and reduced waste in the extrusion process. Larger packages and/or special lengths/bobbin styles may also be available.

Price/kg vs Cost/metre



Product Code	Package Style	Cord Weight g/1000m	Twist Level (tpm)	Approx. Diameter mm	Tensile Strength (N)
A00-001002	Tube	400	0	0.5	258
A10-060402	Bobbin	400	60	0.5	258
A10-060441	Bobbin	400	60	0.5	258
A10-060443	Bobbin	367	60	0.5	258

notes:

1 Cords are made with continuous E glass fibres.

2 Tensile Strength: Values quoted are an indication of breaking strength only.

Please contact NGF to obtain full product and packaging specifications, discuss treatments and cord constructions to meet your specific needs, or obtain technical support and recommendations to assist in improving your process using our glass cords.

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