

# Mechanical Properties of Twaron Yarn Type 1008

3360 dtex Z60

## Introduction

Twaron yarn type 1008 is the standard MRG yarn type. This yarn is suited for all applications.

This publication provides detailed data on the properties of Twaron 1008 yarn. The mechanical properties of Twaron yarns are determined according to standard procedures as described in "Test methods for Twaron yarn (issue SMA 2005)".

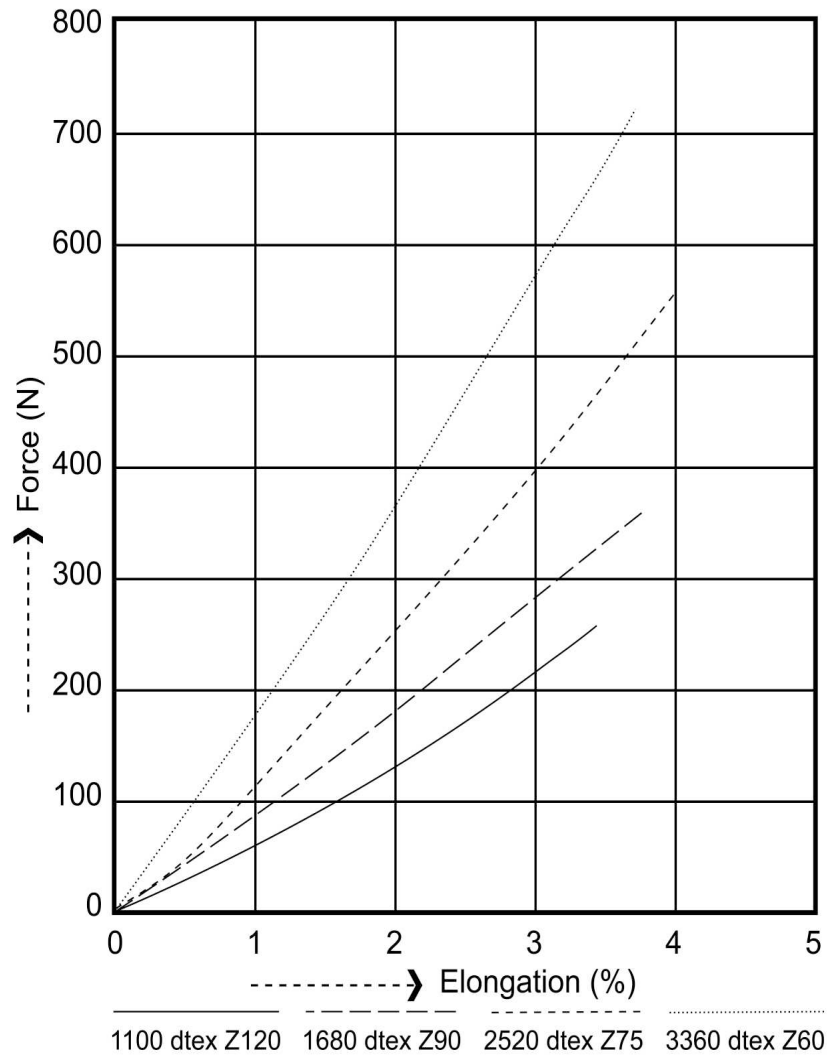
## The standard delivery program for Twaron 1008 is:

1100 dtex Z120  
1680 dtex Z90  
2520 dtex Z75

## Properties of Twaron 1008 yarn

Twaron 1008 (dtex)		1100	1680	2520	3360
		f1000	f1000	f1000	f2000
Linear density	dtex	1135	1735	2600	3500
Breaking strength	N	242	360	535	705
Elongation at break	%	3.4	3.5	3.8	3.6
Force at specified elongation 1%	N	62	85	117	170
Loop breaking strength	N	211	310	431	643
Chord modulus	GPa	80	72	67	72
Measured at twist level	tpm	120	90	75	60

**Representative force-elongation diagram of Twaron 1008 yarn**



Relation between twist level and breaking strength

