

Mechanical Properties of Twaron Yarn Type 1000

Introduction

Twaron type 1000, 840 dtex is suitable for MRG applications requiring a lower yarn count than 1100 dtex. For linear densities of 1100 dtex and up, Twaron type 1008 is the standard yarn type for MRG applications.

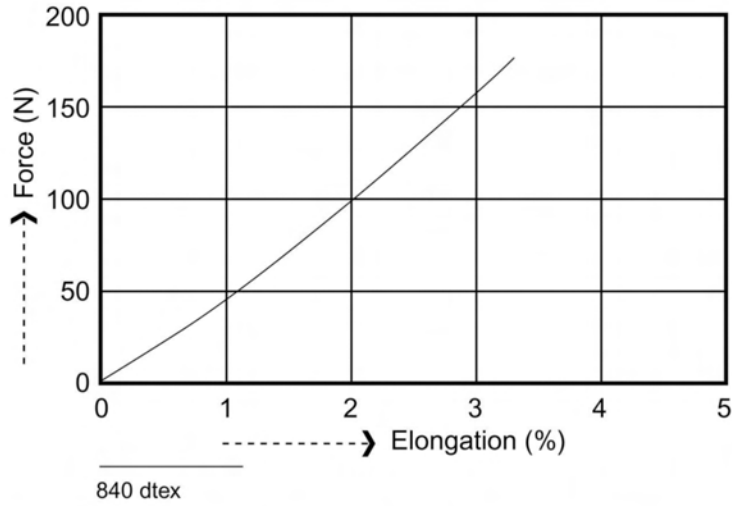
Twaron 1000, 840 dtex yarn has a standard twist of 120 tpm.

This publication provides detailed data on the properties of Twaron 1000, 840 dtex yarn. The mechanical properties of Twaron yarns are determined according to standard procedures as described in "Test methods for Twaron yarns (issue SMA 2005)".

Properties of Twaron 1000, 840 dtex yarn

Twaron 1000 (dtex)		840 dtex f500
Linear density	dtex	860
Breaking strength	N	170
Elongation at break	%	3.4
Force at specified elongation 1%	N	45
Loop breaking strength	N	132
Chord modulus	GPa	76
Measured at twist level	tpm	120

Representative force-elongation diagram of Twaron 1000 yarn



Relation between twist level and breaking strength

