Datasheet Twaron® 1000
Aramid yarn

Properties

Linear density (nominal)	[dtex]	**840**	**1100**	**1680**	**3360**
Linear density (effective)	[dtex]	860	1135	1730	3460
Number of filaments		500	1000	1000	2000
Breaking force	[N]	174	240	350	688
Elongation at break	[%]	3.4	3.5	3.6	3.7
Modulus	[GPa]	78	78	71	67

The properties are measured on twisted yarns as directed in ASTM D7269. The linear densities are measured according to ASTM D1907 option 1 for the effective values.

Make-up and packaging information

Yarn length	[m]	58,100	39,700/ 70,500	52,000/ 56,600	27,800
Tube length	[mm]	290	290	290	216/ 290
Tube inner diameter	[mm]	94	94	94	94
Bobbin diameter	[mm]	181	174/ 215	225/ 233	263/ 231
Number of bobbins per box x weight per bobbin	[kg]	90 x 5.0	90 x 4.5/ 54 x 8.0	54 x 9.0/ 54 x 9.8	52 x 9.6

Box dimensions (L x W x H)	[mm]	Large	1200 x 1040 x 980

Boxes are delivered on CP1 pallets with a height of 138 mm.

General characteristics

Amount of finish	[%]	0.65-0.8
Density	[g/cm^3]	1.44
Decomposition temperature yarn	[°C]	> 450*
Hot air shrinkage (15 min at 180°C)	[%]	< 0.1
Flammability	LOI-Index	> 34**
Coefficient of thermal expansion	[10^{-6}/K]	- 4.8

*   Based on thermogravimetric analysis
** Based on yarn

Aramids by Teijin

Be sure.