



Yarn

Nature of test	Testing standard/ method	Sample size	Instrument
Count of sliver/Roving	-	100 m of sliver or 8 roving bobbins	Wrap Block & Precision Balance
Average weight of hank	-	1 bundle	Balance
Yarn count and its variation	-	10 full cops or 5 baby cones	Wrap Reel & Lea CSP System
Net weight of yarn	-	Hank or cone	Balance
Average length of a hank	-	Hank	Wrap Reel
Lea strength and count	ASTM D 1907-01& ASTM D 1578-93 Reapproved 2003	10 full cops	Lea CSP system
Lea strength and count from hank	-	one bundle	Lea CSP System
Single yarn tenacity and elongation	Uster Method	20 full cops	Uster Tensorapid
Force-elongation/modulus curves	-	20 full cops	Uster Tensorapid
Single yarn strength and elastic recovery	-	10 full cops	Instron 6021
Twist in single/double yarn	ASTM D 1422-99& ASTM D 1423-02	10 full cops	Micro processor Twist Tester
Moisture content in yarn	ISO 6741-1:1989	250 g of sample in sealed airtight container	Mesdan Semi Automatic Moisture Tester
Unevenness of yarn, sliver and roving	ASTM D 1425-96	5 full cops or 5 roving bobbins or 200 m of sliver	Uster Evenness Tester UT3 / UT4
Yarn imperfections, hairiness, spectrogram & diagram	-	5 full cops	Uster Evenness Tester UT3 / UT4

Yarn (contd...)

Nature of test	Testing standard/ method	Sample size	Instrument
U%, imperfections and VL Curve, all sensitivity levels/spectrogram	ASTM D 1425-96	5 cones/full cops or 5 roving bobbins	Uster Evenness Tester UT3 / UT4
Yarn appearance (Conventional)	ASTM D 2255-02	5 cones/full cops	ASTM Yarn Appearance photographs
Yarn Appearance (EIB)	-	5 cones/full cops	EIB System
Hairiness	ASTM D 5674-01	10 full cops	Zweigle
Yarn diameter measurement	-	5 full cops	Microscope
Yarn friction	ASTM D 3108-01	5 baby cones	CTT System
Lint generation	-	2 packages (min. 10,000 metres)	CTT System
Uster classimat test (Seldom occurring fault)	ASTM D-6197-99 Reapproved 2005	12 full cones	User Classimat System-III Classimat Quantum
Filament Yarn			
Denier	-	5 full bobbins	Cut and Weigh
Twist	-	5 full bobbins	Twist Tester
No.of filaments in yarn	-	5 full bobbins	Microscope
Yarn structure and surface studies	-	-	Scanning Electron Microscope
