



Innegra™ Fiber Technical Data Sheet

INNEGRA FIBER PROPERTIES OF UNTWISTED NATURAL YARNS

Value	Test Method	Units	IS-430*	IS-625	IS-940	IS-1250	IS-1880	IS-2800	IS-3800*
Weight per unit length	ASTMD1907	Denier	430	625	940	1250	1880	2800	3800
		Decitex	478	694	1045	1389	2089	3110	4222
Filaments per tow		Count	32	50	75	100	150	225	300
Yield		Yd/lb	10383	7143	4749	3572	2375	1594	1181
		m/kg	20931	14400	9574	7200	4787	3214	2381
Breaking Strength	ASTM D885	lbF	7.8	11	18.6	24.8	37.3	55.5	78
		kgF	3.538	5	8.5	11.3	16.9	25.2	35.38
Ultimate Tensile Strength	ASTM D885	gF/denier	8.4	9.0	9.0	9.0	9.0	9.0	9.0
		cN/tex	74.14	79.5	79.5	79.5	79.5	79.5	79.5
		MPa*	622	667	667	667	667	667	667
Elongation at Break	ASTM D885	%	9	9.5	9.5	9.5	10	11	12
Tensile Modulus	ASTM D885	gF/denier	175	200	200	190	185	168	154
		cN/tex	1545	1766	1766	1678	1633	1483	1362
		MPa*	12972	14828	14828	14086	13716	12455	11440
		Msi*	1.881	2.15	2.15	2.04	1.99	1.81	1.659
Creep @ 20% UTS	1 year, RT	%	TBD	3.2	3.2	3.2	3.2	3.2	3.2
Dielectric Constant		Dk	TBD	2.2	2.2	2.2	2.2	2.2	2.2
Dielectric Loss		Df	TBD	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Max Processing Temp	From DSC data	C	150	150	150	150	150	150	150
		F	302	302	302	302	302	302	302

*using density of 0.84 g/cc