



A PORCHER INDUSTRIES COMPANY

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Innega S Fiber - Technical Information

Value	Test Method	Units	IS-625	IS-940	*IS-1250	*IS-1880	IS-2800	*IS-3800
Weight per Unit Length	ASTM D1907	denier	625	940	1250	1880	2800	3800
		decitex	694	1045	1389	2089	3110	4222
Fillaments per Tow		count	50	75	100	150	225	300
Yield		yd/lb	7143	4749	3572	2375	1594	1175
		m/kg	14400	9574	7200	4787	3214	2368
Breaking Strength	ASTM D885	lbF	11	18.6	24.8	37.3	55.5	75.3
		kgF	5	8.5	11.3	16.9	25.2	34.2
Ultimate Tensile Strength	ASTM D885	gF/denier	9.0	9.0	9.0	9.0	9.0	9.0
		cN/tex	79.5	79.5	79.5	79.5	79.5	79.5
		MPa**	667	667	667	667	667	667
Elongation at Break	ASTM D885	%	9.5	9.5	9.5	10	10	11
Tensile Modulus	ASTM D885	gF/denier	200	200	200	190	185	180
		cN/tex	1766	1766	1766	1678	1634	1589
		MPa**	14828	14828	14828	14086	13716	13345
		Msi**	2.15	2.15	2.15	2.04	1.99	1.94
Creep @ 20% UTS	1 year, RT	%	3.2	3.2	3.2	3.2	3.2	3.2
Dielectric Constant		Dk	2.2	2.2	2.2	2.2	2.2	2.2
Dielectric Loss		Df	0.0009	0.0009	0.0009	0.0009	0.0009	0.009
Maximum Processing / Use Temp	From DSC Data	°C	150	150	150	150	150	150
		°F	302	302	302	302	302	302

**Using density of 0.84 g/cc

US Patents 7074483, 7445843 and 7445842. Additional patents pending.

Material Safety Data Sheet: See www.innegrates.com

Hazard Statement: Innegra S is not considered to be or contain hazardous chemicals based on evaluations made by Innegra Technologies, LLC under the OSHA Hazard Communication Standard 29 CFR 1910.1200