



An Indorama Ventures Company

Yarn Type	Titer & Filaments	Dtex	Breaking Force	Breaking Tenacity		Elongation at break	EASF		HAS
			N	mN/tex	g/d	%	%	(N)	%

**Diolen®**

High-tenacity Polyester Filament Yarns (Low Denier)

<b>54S</b>	550 f 28	554	35.9	648	7.3	27.0	14.5	(14.9)	1.7 (*)
	140 f 24	141	8.6	609	6.9	16.3	3.6	(3.8)	11.1
	225 f 48	227	14.5	638	7.2	13.3	3.5	(6.1)	12.1
<b>57T</b>	280 f 48	278	16.3	586	6.6	17.4	3.9	(7.6)	9.9
	330 f 48	332	20.2	608	6.9	17.5	4.0	(9.0)	10.1
	420 f 96	424	25.5	601	6.8	15.2	3.7	(11.4)	8.4
<b>61ST</b> (super low shrinkage)	550 f 96	554	33.5	605	6.9	15.6	3.9	(14.9)	8.9
	280 f 48	281	18.3	651	7.4	17.6	7.2	(7.6)	1.7 (*)
	550 f 105	556	38.0	683	7.7	23.0	11.0	(14.9)	1.4 (*)

**Diolen®**

High-tenacity Polyester Filament Yarns (High Denier)

<b>164S</b> (low shrinkage - adhesive activated)	1100 f 210	1122	84.8	756	8.6	13.5	6.2	(45.0)	3.2
	1670 f 210	1683	127.0	755	8.6	14.0	6.5	(68.0)	3.2
	2200 f 420	2255	167.5	743	8.4	14.0	6.4	(90.0)	3.2
	3300 f 630	3395	251.0	739	8.4	14.0	6.6	(135.0)	3.2
	9900 f 1890	10130	728.0	719	8.1	15.0	7.3	(405.0)	3.2
<b>165ST</b> (adhesive activated)	19800 f 3780	20150	1428.0	709	8.0	15.7	8.3	(810.0)	3.2
	1100 f 210	1115	89.4	802	9.1	14.0	6.8	(45.0)	3.7
<b>170ST</b> (low shrinkage)	1670 f 210	1656	139.1	840	9.5	14.0	6.8	(68.0)	3.5
	1100 f 210	1119	80.0	715	8.1	21.8	13.6	(45.0)	1.6 (*)
<b>170ST-FC</b> (low shrinkage)	1670 f 210	1705	124.5	730	8.3	22.3	13.8	(68.0)	1.6 (*)
	1100 f 210	1119	80.0	715	8.1	21.8	13.6	(45.0)	1.6 (*)
<b>170SST</b> (super low shrinkage)	1670 f 210	1705	124.5	730	8.3	22.3	13.8	(68.0)	1.6 (*)
	1100 f 210	1118	81.5	728	8.2	23.9	16.0	(45.0)	1.0 (*)
<b>174S</b> (super low shrinkage)	1100 f 210	1122	84.8	756	8.6	19.3	12.1	(45.0)	1.2 (*)
	1440 f 210	1451	106.0	730	8.3	19.0	12.1	(59.0)	1.3 (*)
	1670 f 210	1705	130.0	762	8.6	20.5	12.9	(68.0)	1.0 (*)
	2200 f 420	2245	167.0	744	8.4	20.2	12.6	(90.0)	1.1 (*)
	2880 f 420	2890	214.0	740	8.4	20.0	12.4	(118.0)	1.2 (*)
<b>174ST</b> (super low shrinkage)	3300 f 630	3400	248.0	729	8.3	20.5	12.8	(135.0)	1.1 (*)
	1100 f 210	1122	85.0	758	8.6	19.3	12.1	(45.0)	1.2 (*)
<b>175SLC</b> (super low capillarity)	1100 f 210	1144	84.0	734	8.3	19.6	12.1	(45.0)	1.3 (*)
	1670 f 210	1722	127.5	740	8.4	19.9	12.1	(68.0)	1.3 (*)
	2200 f 420	2281	163.2	715	8.1	19.3	11.8	(90.0)	1.3 (*)
<b>181T</b>	880 f 105	883	57.4	650	7.4	15.0	7.2	(36.0)	9.0
	1100 f 105	1115	75.0	673	7.6	14.5	7.0	(45.0)	9.0
<b>775</b> (adhesive activated)	1100 f 210	1121	89.0	794	9.0	11.5	4.4	(45.0)	6.0
	3300 f 630	3395	259.0	763	8.6	12.3	4.7	(135.0)	6.0
<b>855T</b>	1100 f 210	1108	92.0	830	9.4	12.0	5.5	(45.0)	6.5
	1670 f 210	1670	135.5	811	9.2	13.5	6.5	(68.0)	5.9
	2200 f 210	2240	185.0	826	9.4	13.9	7.2	(90.0)	6.8

Tensile testing is performed at a yarn twist of Z60 t/m

Hot-air shrinkage (HAS; 2 min. at 180°C) is performed with a pretension of 5 mN/tex resp. 1 mN/tex (\*)

Key: FC=Food Contact | S=Stabilized | T=Tangled