

The FilamentFactory
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**The
FilamentFactory**

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The FilamentFactory GmbH



New Flame Retardant Solutions

Solid Flame Retardant Masterbatch System

Targets: Achievement of more flexibility, savings & technical benefits

DFT- Flame Retardancy Test Results

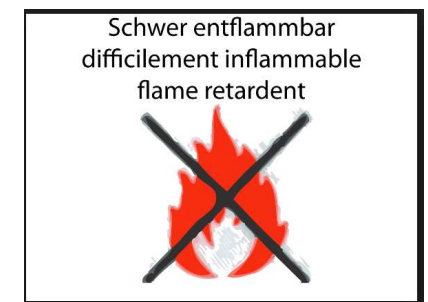
Sample- No.	sample - ID	Titer & Filaments	knit fabric density (g/m ²)	LOI (%)	FR- Results
1	Type 710 dtex L880 without FR	2x550 dtex f96	331	28,4	M3
2	Type 704 L266 (Standard 1802)	1100 dtex f256	338	28,1	M1
3	Type 704 P868 MB	1100dtex f256	319	27,8	M1
4	Type 170 PPS P558	1100 dtex f192	331	35,8	M1
5	Type 190 PEEK L491	1230 dtex f72	338	27,6	M2-M3

FR-Test: according to French NF P 92 503/504 - 1995 + add.

Test specimens: made as knitted socks

Date: June 2017

All the results made on specific specimens correspond to internal Lab-Test standards and cannot confirm or replace any official certificate of compliance from an accredited institute.



The FilamentFactory		Type 704 Flame Retardant									
		Standard 1802 Resin			FR-Masterbatch						
Yarn Properties	Units	1100dtex f256 TO L266	550dtex f128 VO P 322	280dtex f64 VO P 323	1100dtex f256 TO P 868	3300dtex f768 VO P926	1670dtex f384 VO P 869	550dtex f128 VO P 867	280dtex f64 VO P 855	150dtex f48 S10 P 840	74dtex f24 S10 P 934
Titer (eff.)	dtex	1151,0	565,0	280,0	1120,0	3348,0	1671,8	564,4	281,7	146,9	75,5
Tenacity	cN/tex	54,5	48,1	49,1	61,2	58,9	57,4	61,6	55,4	61,4	58,1
EAB	%	22,4	22,0	22,0	18,4	17,1	18,7	22,5	19,6	21,5	15,6
EASF [45cN/tex]	%	18,6	18,5	18,5	13,5	15,3	14,8	15,2	14,6	13,9	12,1
Breaking force	cN	6273,5	2720,0	1375,0	6849,0	19719,0	9601,2	3476,0	1559,4	901,6	439,0
HAS 180°C 15min	%	4,0	5,5	5,5	3,6	3,4	4,7	4,0	4,4	3,6	4,5

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Conclusions:

- High inherent flame retardancy
- Higher Tenacity than other FR-systems
- Lower Shrinkage (HAS%) on demand
- Shorter delivery terms with more flexibility- Time to Market!
- Best Cost - Benefit Effect

