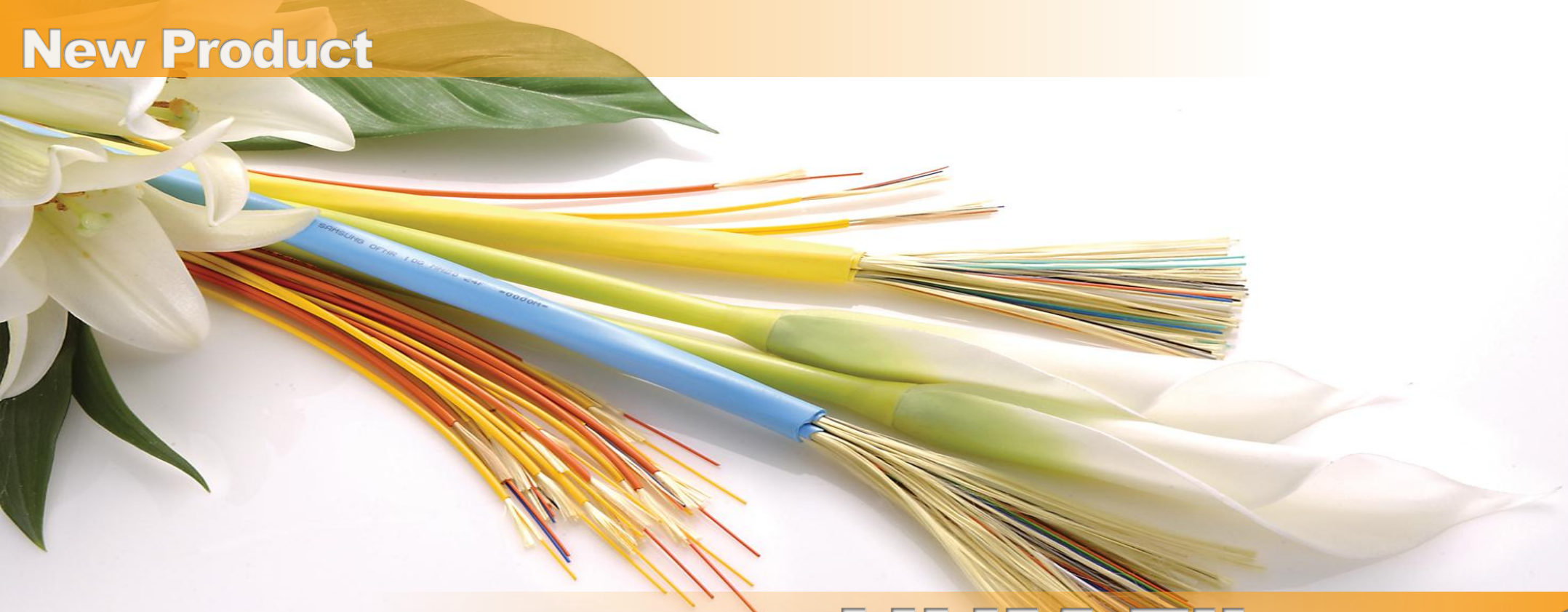


**New Product**



# UHM Filament

(ULTRA HIGH MODULUS Filament)

**HERACRON**<sup>®</sup>  
Aramid Technology of KOLON

 **KOLON INDUSTRIES**

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# UHM Filament Properties

**HF300**

**Ultra-High Modulus**

Linear density				Filament Count	Breaking tenacity			Breaking force		Elongation at break	LASE				Youngs Modulus	
(Nominal)		(Effective)			[g/d]	[MPa]	[cN/tex]	[kgf]	[N]		0.5%		1.0%		[g/d]	[GPa]
[denier]	[dtex]	[denier]	[dtex]	[ea]						[g/d]	[MPa]	[cN/tex]	[kgf]	[N]		
1420	1580	1430	1590	1000	23.0	2930	203	32.9	323	2.4	8.0	78	15.5	152	1070	136
2840	3160	2860	3180	2000	23.0	2930	203	65.8	645	2.5	15.0	147	28.0	275	1010	129
5680	6320	5720	6360	4000	22.0	2800	194	126.0	1234	2.7	28.0	275	54.0	530	930	118
7100	7900	7150	7950	5000	22.0	2800	194	157.0	1543	2.8	33.0	324	65.0	637	885	113
8520	9480	8580	9540	6000	22.0	2800	194	189.0	1851	2.9	38.0	373	75.0	735	835	106
9940	11060	10010	11130	7000	21.5	2740	190	215.0	2111	3.0	42.0	412	80.0	785	810	103
11360	12640	11440	12720	8000	21.5	2740	190	246.0	2412	3.1	48.0	471	93.0	912	790	101
14200	15800	14300	15900	10000	21.5	2740	190	307.0	3015	3.2	56.0	549	106.0	1040	750	95

ASTM D1907 **Option 5**

ASTM D885

\*Development in Process

\*\* Measured at twist

\*\*\*Tube Size : 94mm x 216mm

- ▷ Density (g/cm<sup>3</sup>) : 1.45
- ▷ Flammability (LOI) : 29
- ▷ Decomposition temperature (in air) : 530 °C
- ▷ Hot air shrinkage (177 °C \*60min) : -0.1%