Data Sheet

PROPERTY	ASTM	UNITS	PTFE	FEP	PFA	PVDF	PEEK	LDPE
Ultimate Tensile Strength	D1708	PSI	3200	3500	4000	5000	13300	2100
Density (g/cc)	D792		2.19	2.15	2.15	1.8	1.32	0.93
Coefficient of Friction	<10ft/min		0.1	0.2	0.2	0.3	0.42	0.18
Compressive strength	D695	PSI	3500	2200		11600	17100	2700
Impact strength	D256	Ft-Lb/in	3.5	None	None	4	655	1
Hardness, Shore D	D2240		60D	55D	60D	78D	86D	48D
Water Absorption (%)	D570	%	<0.01	<0.01	<0.03	<0.04	<0.05	<0.01
Dielectric Strength (V/mil)	D149	V/Mil	>1400	>2000	>2000	>1080	>500	>700
Maximum Service Temp, Air (°C)		℃	260	204	260	113	250	88
Melt Temp (°C)	DTA	℃	335	260	302	178	334	177
Natural Color (Transparency)			70%	85%	90%	85%	Tan	70%
Adhesiveness			Very Poor	Poor	Poor	Poor	Fair	Poor
Minimum ID		mm	0.03	0.025	0.08	0.05	0.05	0.1
Minimum OD		mm	0.23	0.3	0.35	0.3	0.3	0.5
Biocompatibility	ISO10993-5/10		Yes	Yes	Yes	No	Yes	Yes
USP IV			Yes	Yes	Yes	Yes	Yes	Yes
ROHS/REACH			Yes	Yes	Yes	Yes	Yes	Yes

PROPERTY	HDPE	PA	PEBAX	TPU70A	TPU85A	TPU50D	EVA	TPE
Ultimate Tensile Strength	4500	5200	5120	4200	4500	3700	4000	2760
Density (g/cc)	0.96	1.15	1.01	1.17	1.12	1.22	0.96	0.908
Coefficient of Friction	0.14	0.45	0.37	1.2	1.13	0.78	0.66	0.9
Compressive strength	3600	6500	6770	6500	6100	4600	5800	8000
Impact strength	10	None	None	None	None	None	None	None
Hardness, Shore D	65D	68D	69D	72A	85A	50D	87A	60A
Water Absorption (%)	<0.01	<0.02	<0.007	<0.05	<0.05	<0.05	<0.05	<0.034
Dielectric Strength (V/mil)	>480	>500	>490					
Maximum Service Temp, Air (°C)	120	120	120	85	100	107	67	120
Melt Temp (°C)	188	178	230	187	190	196	89	230
Natural Color (Transparency)	Milky	100%	100%	100%	100%	100%	100%	100%
Adhesiveness	poor	Fair	Fair	Excellent	Excellent	Excellent	Excellent	Excellent
Minimum ID	0.1	0.03	0.03	0.1	0.1	0.1	0.08	0.08
Minimum OD	0.8	0.3	0.3	1	0.8	0.6	0.6	0.8
Biocompatibility	Yes	No	No	Yes	Yes	Yes	No	No
USP IV	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
ROHS/REACH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes