



RANDOLPH AUSTIN COMPANY

Prothane™

PROTHANE is a transparent, aqua blue, polyester polyurethane tubing that exhibits excellent abrasion resistance, has good low temperature properties and is resistant to ozone and oxidation. PROTHANE exhibits an excellent resilience to continuous flexing and impacting experienced in peristaltic pumps. The elastic recovery following compression is quite good and allows for a long-flex life in many applications. Along with these exceptional features PROTHANE exhibits good hydraulic stability, good oil and fuel resistance and high tensile and tear strength. PROTHANE is resistant to diesel fuel, kerosene, motor oil, mild solvents, aromatic hydrocarbons, gasoline, and concentrated acid and alkaline solutions. The tubing should be tested with the chosen fluid in all cases. Available in continuous lengths up to 500ft, depending on the size.

Property	Test Method	Typical Values
Specific Gravity	ASTM D792	1.18
Ultimate Tensile (psi)	ASTM D412	3154
Ultimate Elongation	ASTM D412	870
100% Modulus (psi)	ASTM D412	380
Hardness Shore "A"	ISO 868	70
Compression Set 158 F°, 22 Hr.	ASTM D395B	19
Brittleness Temperature (F°)	ASTM D746	
Recommended Working Temp. (F°)	-	

Available Stock Sizes

Catalog No.	I.D.	O.D.	Wall	Pump	Grams / Foot	Working PSI
US003015	0.031	0.156	0.063		4.06	229.8
US006018	0.063	0.188	0.063	250	5.41	132.0
US006021	0.063	0.218	0.078		7.54	155.8
US012025	0.125	0.250	0.063	250	8.11	75.8
US012037	0.125	0.375	0.125		21.64	132.0
US018031	0.188	0.313	0.063		10.82	54.8
US018037	0.188	0.375	0.094	300/500	18.26	75.8
US025037	0.250	0.375	0.063		13.52	43.5
US025043	0.250	0.438	0.094	300/500	22.31	60.2
US025050	0.250	0.500	0.125		32.46	75.8
US031043	0.313	0.438	0.063		16.23	36.4
US031050	0.313	0.500	0.094		26.37	50.4
US037050	0.375	0.500	0.063		18.93	31.5

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US037056	0.375	0.563	0.094		30.43	43.5
US037062	0.375	0.625	0.125	610	43.28	54.8
US037087	0.375	0.875	0.250		108.19	95.4
US043056	0.438	0.563	0.063		30.43	27.8
US050062	0.500	0.625	0.063		43.28	25.0
US050068	0.500	0.688	0.094		108.19	34.6
US050075	0.500	0.750	0.125	610	21.64	43.5
US050087	0.500	0.875	0.188		24.34	60.2
US062081	0.625	0.813	0.094		38.54	28.9
US062087	0.625	0.875	0.125		54.10	36.4
US062093	0.625	0.938	0.156	750	89.26	43.5
US075100	0.750	1.000	0.125		46.66	31.5
US075106	0.750	1.063	0.156	750	64.92	37.6
US075125	0.750	1.250	0.250	880	84.53	54.8
US100125	1.000	1.250	0.125		75.74	25.0
US100137	1.000	1.375	0.188		98.05	34.6
US100150	1.000	1.500	0.250	880	216.39	43.5