



Polyurethane Tubing Ester

US series

PU Ester is pneumatic tubing for general industrial use, suitable for automation equipment and standard industrial pneumatic systems.

Made from polyester-based polyurethane, it provides good flexibility, elasticity, abrasion resistance, and oil resistance.

Multiple colors are available for circuit identification.

Key Features

- High flexibility
- Good elasticity
- Smooth surface
- Good oil resistance
- Good abrasion resistance
- Multiple colors for circuit identification

Applications

- General industrial pneumatic systems
- Automation equipment and pneumatic modules
- Applications involving repeated flexing during equipment movement or installation in limited spaces

Regulatory Compliance

- RoHS compliant
- REACH compliant

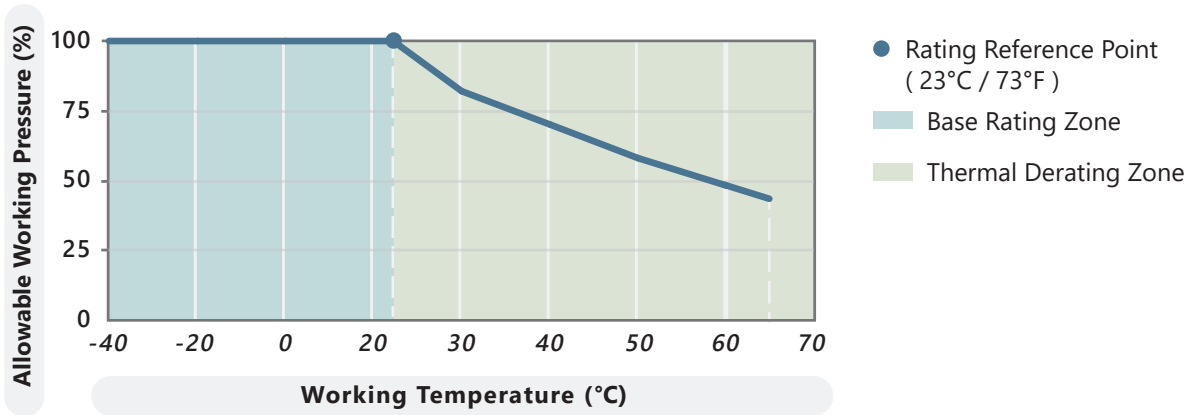
Technical Specifications

Material	Polyester-based Polyurethane
Hardness	98 Shore A
Operating Temp. Range	-40°C to 65°C (-40°F to 150°F)
Safety Factor	3 : 1

Tube Tolerance

Tube O.D.	O.D. Tolerance
3 – 8 mm	±0.10 mm
10 – 12 mm	±0.15 mm
14 – 16 mm	±0.20 mm

Maximum Working Pressure Derating Curve



Specifications

Model Number	Tube OD	Tube ID	Wall Thickness	Weight	Max. Working Pressure 23°C (73°F)	Min. Burst Pressure 23°C (73°F)	Min. Bend Radius	Packing Length	Color					
+Color	mm	mm	mm	g/m	bar	bar	mm	m	NA	BK	BU	G	R	Y
US301825M_	3.0	1.8	0.60	5.6	20	60	10	25	☐		☒			
US301850M_								50						
US3018100M_								100						
US402525M_	4.0	2.5	0.75	9.4	15	45	15	25	☐	☒	☒	☒	☒	☒
US402550M_								50						
US4025100M_								100						
US402025M_	4.0	2.0	1.00	11.6	22	66	15	25	☐	☒	☒	☒	☒	☒
US402050M_								50						
US4020100M_								100						
US503025M_	5.0	3.0	1.00	15.4	16	48	20	25	☐		☒			
US503050M_								50						
US5030100M_								100						
US604025M_	6.0	4.0	1.00	19.3	14	42	25	25	☐	☒	☒	☒	☒	☒
US604050M_								50						
US6040100M_								100						
US805025M_	8.0	5.0	1.50	37.7	15	45	30	25	☐	☒	☒		☒	☒
US805050M_								50						
US8050100M_								100						
US805525M_	8.0	5.5	1.25	32.6	12	36	40	25	☐	☒	☒		☒	☒
US805550M_								50						
US8055100M_								100						
* US806025M_	8.0	5.7	1.15	30.4	11	33	40	25	☐	☒	☒	☒	☒	☒
* US806050M_								50						
* US8060100M_								100						
US106525M_	10.0	6.5	1.75	55.8	14	42	40	25	☐	☒	☒		☒	☒
US106550M_								50						
US1065100M_								100						
US107025M_	10.0	7.0	1.50	49.2	11	33	50	25	☐	☒	☒		☒	☒
US107050M_								50						
US1070100M_								100						
US107525M_	10.0	7.5	1.25	42.2	9	27	60	25	☐	☒	☒		☒	☒
US107550M_								50						
US1075100M_								100						
* US108025M_	10.0	7.7	1.15	39.3	8	24	65	25	☐	☒	☒	☒	☒	☒
* US108050M_								50						
* US1080100M_								100						
US128025M_	12.0	8.0	2.00	77.2	13	39	50	25	☐	☒	☒		☒	☒
US128050M_								50						
US1280100M_								100						
US129025M_	12.0	9.0	1.50	60.8	9	27	70	25	☐	☒	☒	☒	☒	☒
US129050M_								50						
US1290100M_								100						
US141025M_	14.0	10.0	2.00	92.7	11	33	70	25	☐	☒	☒			
US141050M_								50						
US1410100M_								100						
US141125M_	14.0	11.0	1.50	72.4	8	24	100	25	☐	☒	☒			
US141150M_								50						
US1411100M_								100						
US161125M_	16.0	11.0	2.50	130.3	12	36	75	25	☐	☒	☒			
US161150M_								50						
US1611100M_								100						
US161225M_	16.0	12.0	2.00	108.1	9	27	100	25	☐	☒	☒			
US161250M_								50						
US1612100M_								100						

* Note : For certain sizes, the I.D. code in the model number may not directly correspond to the actual tube I.D. Please refer to the specification table for actual dimensions.

Selected hardness levels, sizes, and colors may be available upon request. Please contact SHPI for availability.

Ordering Information

US		30		18		25M		NA	
Material		Outside Diameter		Inside Diameter		Package Length		Color Code	
US	Polyurethane - Ester	30	3.0 mm	18	1.8 mm	25M	25 Meters	NA	Natural
		40	4.0 mm	20	2.0 mm	50M	50 Meters	BK	Black
		50	5.0 mm	25	2.5 mm	100M	100 Meters	BU	Blue
		60	6.0 mm	30	3.0 mm			G	Green
		80	8.0 mm	40	4.0 mm			R	Red
		10	10.0 mm	50	5.0 mm			Y	Yellow
		12	12.0 mm	55	5.5 mm				
		14	14.0 mm	* 60	5.7 mm				
		16	16.0 mm	65	6.5 mm				
				70	7.0 mm				
				75	7.5 mm				
				* 80	7.7 mm				
				80	8.0 mm				
				90	9.0 mm				
				10	10.0 mm				
				11	11.0 mm				
				12	12.0 mm				

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