



Key feature

- Hardness: 80-95A, 70D
- Curing agent: MOCA
- Hot cast polyurethane elastomer
- High tensile strength
- Good hydrolysis resistance
- Good mechanical property

PTMG + TDI

Application

The hot cast polyurethane is suitable to be used on the following applications: Bushes, Castor Wheels, Couplings, Conveyor Rollers, Cutting Boards, Fork-lift Tyres, Gears, Grading Screens, Pneumatic and Oil Seals, Scrapers, Skate Wheels, Wire Guides.

Introduction

"PU Casting Elastomer" urethane elastomer is hot cast polyurethane. It can be cured by reacting with a polyamine or a polyol hardener. The molding process is composed of pre-heating, degassing, mixing with a hardener, pouring into the mold, curing, demolding and post curing.

PTMG + TDI hot cast polyurethane

	CPU - 42L	CPU - 100L	CPU - 167L	CPU - 325L
Hardness (Shore A)	77 - 89	86 - 92	92 - 98	59 - 72D
NCO Content (%)	2.95 - 3.55	4.1 - 4.6	6.0 - 6.6	8.9 - 9.5
Viscosity (CPS/25°C)	41,000± 9,000	25,500± 7,500	10,000± 5,000	3,750± 1,250
PHR of MOCA (%)	10.2 - 11.2	13.5 - 14.5	18.12 - 19.33	27 - 29
Working Temperature (Prepolymer) (°C)	70 - 80	70 - 80	70 - 80	70 - 80
MOCA Temp.	100 - 120	100 - 120	100 - 120	100 - 120

Mold Temp. (°C)	70 - 90	70 - 90	70 - 90	70 - 90
Pot-Life (Min)	4 - 6	4 - 6	4 - 6	4 - 6
Tensile Strength (kg/cm ²)	290-430	300-450	350-500	350-500
Elongation (%)	545-645	400-500	350-450	250-350
Tear Strength (kg/cm)	65-105	80-120	120-160	210-260



Key feature

Polyurethane Tube (PU hose)

- High flexibility
- Small bending radius
- Widely used in many applications
- Available in ether and ester PU hoses
- Optimum abrasion resistance
- High tensile strength
- Low temperature flexibility

Application

PU hose can be widely utilized in automated machinery, coating machinery, all kinds of pneumatic tools, pneumatic & hydraulic machinery, construction and various pneumatic tools. Polyether based polyurethane tube (PU hose) is hydrolysis-resistant, anti-bacterial & anti-fungous, and it can be used for gardening, cleaning, water hoses and other purposes. Ether type polyurethane tube (PU hose) is resistance to hydrolysis, fungus and weatherability. Ester type polyurethane tube (PU hose) give maximum abrasion resistance and good oil, solvent and great resistance.

Description



ITEM No.	OD (mm)	x	ID (mm)	x	Length (M)
TBU0425	4	x	2.5	x	200M
TBU0604	6	x	4	x	200M
TBU0805	8	x	5	x	100M

TBU09565	9.53	x	6.5	x	100M
TBU1065	10	x	6.5	x	100M
TBU1208	12	x	8	x	100M
TBU1296	12.6	x	9.6	x	100M
TBU1410	14.1	x	10.1	x	100M
TBU1614	16	x	14	x	100M

Product Information

Part No.	OD x ID (mm)	Burst Pressure (kgf/cm ²)	Working Pressure (kgf/cm ²)	Min. Bending Radius (mm)	Standard Length (M)	Weight (g/M)
TBU0425	4x2.5	32	<10	10	100.200	9
TBU0640	6x4	27	<10	16	100.200	18
TBU0850	8x5	32	<10	22	100	38
TBU09565	9.53x6.5	28	<10	27	100	52
TBU1065	10x6.5	30	<10	28	100	55
TBU1280	12x8	28	<10	37	100	78
TBU1296	12.6x9.6	30	<10	39	100	82
TBU1410	14.2x10.1	32	<10	41	100	86
TBU1614	16x14	32	<10	43	100	92

Physical Properties

Hardness (Shore A)	98A	ASTM D-2240
Tensile Strength (Kg/cm ²)	600	ASTM D-638
Ultimate Elongation (%)	490-590	ASTM D-638
Taber Abrasion (mg)	30-40	ASTM D-1044

Tear Strength (Kg/cm ²)	155	ASTM D-732
PU Type	POLYESTER & POLYETHER BASE	-

Notice: These values are based on the test of our present laboratory test specimens. Others PU Tube sizes can be developed by our technical department and will have the same quality.