

Gasket Man cc

Data Specifications Sheet

Polyurethane

Polyurethane is a unique material that offers the elasticity of rubber combined with the toughness and durability of metal. Because urethane is available in a very broad hardness range, it can replace rubber, plastic or metal while providing improved abrasion resistance and physical properties.

Applications

- Bellows
- Machinery mounts
- Cutting Surfaces
- Sound-dampening pads
- Chute and hopper liners
- Prototype machined parts
- Gaskets
- Seals
- Rollers
- Roller covers
- Sandblast curtains
- Diaphragms
- Wear strips

Advantages

- Abrasion resistance
- Weather resistance
- Heat and cold resistance
- Oil and solvent resistance
- Noise abatement/reduction
- Load bearing capacity
- Flex-Life
- Tear resistance
- Electrical properties

Physical Properties / Technical Data

The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control.

MECHANICAL PROPERTY	ASTM Test	MP300	MP600	MP750	MP850	MP900	MP950	MP160	MP175
Tensile properties									
Break, psi	D-412	380	4500	5500	6000	4500	5500	6500	7500
100% modulus, psi	D-412	80	250	350	600	1100	1800	3000	5500
300% modulus, psi	D-412	170	600	1000	1500	2100	4000	6500	-
Elongation, %	D-412	515	500	500	500	450	320	300	225
Break Set, %	D-412	-	5	10	10	10	10	15	-
Modulus of Elasticity, psi	D-638	-	5	15	25	50	90	125	-
Compression Properties (Shape Factor 0.56)									
Deflection, psi @ 5%	D-575	15	30	70	180	310	450	-	-
Deflection, psi @ 10%	D-575	25	70	140	390	625	890	-	-
Deflection, psi @ 15%	D-575	34	110	220	560	875	1170	-	-
Deflection, psi @ 20%	D-575	38	160	280	690	1125	1400	-	-
Deflection, psi @ 25%	D-575	44	220	330	800	1350	1800	-	-
Compression Set, %									
Method A @ 70°C	D-395	-	10	8	5	-	1	10	15
Method B @ 70°C	D-395	9	10	15	25	30	40	50	-
Durometer, Shore ±5	D-2240	30A	60A	75A	85A	90A	95A	60D	75D
Tear Properties	D-624	90	200	250	400	400	450	700	850
Abrasion Resistance, Tabor									
H18 @ 1000 gm, load, mg, loss/1000 cycles	C-501	-	30	40	40	30	40	80	450
Specific Gravity	D-792	1.20	1.26	1.26	1.26	1.10	1.15	1.18	1.18
Base		Ester	Ester	Ester	Ester	Ether	Ether	Ether	Ether

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