



Rubber and Plastics

THE GLOBAL SOURCE FOR RUBBER & PLASTIC PRODUCTS

EPDM Rubber (EPTR)

Common Names EPDM Rubber

GENERAL CHARACTERISTICS

Durometer Range	20—90
Tensile Range(P.S.I)	450—2000
Elongation (MAX.%)	800%
Compression Set	Good
Resilience - Rebound	Good
Abrasion Resistance	Good
Tear Resistance	Fair
Solvent Resistance	Excellent
Oil Resistance	Poor
Low Temperature Usage	0—-70° c
High Temperature Usage	0—+150° c
Aging Weather—Sunlight	Excellent

ASTM D2000 Classification AA

Military(MIL—STD417) RN

Chemical Definition Ethylene Propylene Diene Monomer



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SILICONE

Common Names Silicone

GENERAL CHARACTERISTICS

Durometer Range	30 – 90
Tensile Range (P.S.I.)	200 – 1500
Elongation (Max. %)	700
Compression Set	Good
Resilience – Rebound.....	Good
Abrasion Resistance	Fair to Poor
Tear Resistance.....	Poor
Solvent Resistance	Poor
Oil Resistance	Fair to Poor
Low Temperature Usage	-60° to -150°
High Temperature Usage	up to 450°
Aging Weather – Sunlight.....	Excellent
Adhesion to Metals.....	Good
ASTM D2000 Classification	FC, FE, GE
Military (MIL-STD 417)	TA
Chemical Definition.....	Polysiloxane

NATURAL RUBBER

Common Names Natural Rubber

GENERAL CHARACTERISTICS

Durometer Range	20 – 100
Tensile Range (P.S.I.)	500 – 3500
Elongation (Max. %)	700
Compression Set	Excellent
Resilience – Rebound.....	Excellent
Abrasion Resistance	Excellent
Tear Resistance	Excellent
Solvent Resistance	Poor
Oil Resistance	Poor
Low Temperature Usage	-20° to -60°
High Temperature Usage	up to 175°
Aging Weather – Sunlight.....	Poor
Adhesion to Metals.....	Excellent

ASTM D2000 Classification	AA
Military (MIL-STD 417).....	RN
Chemical Definition.....	Polyisoprene

SBR

Common Names..... SBR, Buna-S, GRS

GENERAL CHARACTERISTICS

Durometer Range	30 – 100
Tensile Range (P.S.I.)	500 – 3000
Elongation (Max. %)	600
Compression Set	Good
Resilience – Rebound.....	Good
Abrasion Resistance	Excellent
Tear Resistance.....	Fair
Solvent Resistance	Poor
Oil Resistance	Poor
Low Temperature Usage	0° to -50°
High Temperature Usage	up to 225°
Aging Weather – Sunlight.....	Poor
Adhesion to Metals.....	Excellent
ASTM D2000 Classification	AA, BA
Military (MIL-STD 417)	RS
Chemical Definition.....	Styrene Butadiene

BUTYL

Common Names..... Butyl

GENERAL CHARACTERISTICS

Durometer Range	40 – 90
Tensile Range (P.S.I.)	500 – 3000
Elongation (Max. %)	850
Compression Set	Fair to Good
Resilience – Rebound.....	Fair
Abrasion Resistance	Fair
Tear Resistance.....	Good
Solvent Resistance	Poor
Oil Resistance	Poor
Low Temperature Usage	-10° to -60°
High Temperature Usage	up to 250°
Aging Weather – Sunlight.....	Excellent
Adhesion to Metals.....	Good
ASTM D2000 Classification	AA, BA
Military (MIL-STD 417)	RS
Chemical Definition.....	Isobutylene Isoprene



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EPR

Common Names EPDM, EPR, EPT

GENERAL CHARACTERISTICS

Durometer Range	30 – 90
Tensile Range (P.S.I.)	500 – 2500
Elongation (Max. %)	600
Compression Set	Good
Resilience – Rebound.....	Good
Abrasion Resistance	Good
Tear Resistance.....	Fair
Solvent Resistance	Poor
Oil Resistance	Poor
Low Temperature Usage	-20° to -60°
High Temperature Usage	up to 350°
Aging Weather – Sunlight.....	Excellent
Adhesion to Metals.....	Fair to Good
ASTM D2000 Classification	CA
Military (MIL-STD 417)	RS
Chemical Definition.....	Ethylene Propylene

BUNA-N

Common Names..... Buna-N, Nitrile, NBR

GENERAL CHARACTERISTICS

Durometer Range	20 – 95
Tensile Range (P.S.I.)	200 – 3000
Elongation (Max. %)	600
Compression Set	Good
Resilience – Rebound.....	Good
Abrasion Resistance	Excellent
Tear Resistance.....	Good
Solvent Resistance	Good to Excellent
Oil Resistance	Good to Excellent
Low Temperature Usage	30° to -40°
High Temperature Usage	up to 250°
Aging Weather – Sunlight.....	Poor
Adhesion to Metals.....	Good to Excellent
ASTM D2000 Classification	BF, BG, BK
Military (MIL-STD 417)	SB
Chemical Definition.....	Butadiene Acrylonitrile



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NEOPRENE

Common Names Neoprene

GENERAL CHARACTERISTICS

Durometer Range	20 – 95
Tensile Range (P.S.I.)	500 – 3000
Elongation (Max. %)	600
Compression Set	Good
Resilience – Rebound.....	Excellent
Abrasion Resistance	Excellent
Tear Resistance.....	Good
Solvent Resistance	Fair
Oil Resistance	Fair
Low Temperature Usage	10° to -50°
High Temperature Usage	up to 250°
Aging Weather – Sunlight.....	Good
Adhesion to Metals.....	Good to Excellent

ASTM D2000 Classification	BC, BE
Military (MIL-STD 417)	SC
Chemical Definition.....	Polychloroprene

URETHANE

Common Names Urethane, Polyurethane

GENERAL CHARACTERISTICS

Durometer Range	35 – 100
Tensile Range (P.S.I.)	500 – 6000
Elongation (Max. %)	750
Compression Set	Poor
Resilience – Rebound.....	Good
Abrasion Resistance	Excellent
Tear Resistance.....	Excellent
Solvent Resistance	Poor
Oil Resistance	Good
Low Temperature Usage	-10° to -30°
High Temperature Usage	up to 175°
Aging Weather – Sunlight.....	Excellent
Adhesion to Metals.....	Fair to Good
ASTM D2000 Classification	BG
Military (MIL-STD 417)	SB
Chemical Definition.....	Polyester/Polyether Urethane



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FLUROSILICONE

Common Names Fluorosilicone

GENERAL CHARACTERISTICS

Durometer Range	50 – 80
Tensile Range (P.S.I.)	500 – 800
Elongation (Max. %)	300
Compression Set	Good
Resilience – Rebound.....	Excellent
Abrasion Resistance	Poor
Tear Resistance.....	Poor
Solvent Resistance	Fair
Oil Resistance	Good
Low Temperature Usage.....	-80°
High Temperature Usage	up to 300°
Aging Weather – Sunlight.....	Excellent
Adhesion to Metals.....	Poor

ASTM D2000 Classification	FK
Military (MIL-STD 417)	MIL – R – 25988, Amend. 2
Chemical Definition.....	Fluorosilicone



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FLUORO ELASTOMERS

Common Names Viton®, Fluoro Elastomer, FKM

GENERAL CHARACTERISTICS

Durometer Range	60 – 90
Tensile Range (P.S.I.)	500 – 2000
Elongation (Max. %)	300
Compression Set	Good
Resilience – Rebound.....	Fair
Abrasion Resistance	Good
Tear Resistance	Good
Solvent Resistance	Excellent
Oil Resistance	Excellent
Low Temperature Usage	+10° to -10°
High Temperature Usage	400° to 600°
Aging Weather – Sunlight.....	Excellent
Adhesion to Metals.....	Good

ASTM D2000 Classification	HK
Military (MIL-STD 417)	MIL – R – 25897 and MIL – R - 83248
Chemical Definition	Fluorinated Hydrocarbon