

Epic Sheet Rubber

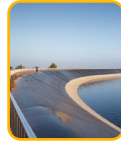
Rolls, Strips and Cut-to-Size

Epic Polymer carries the largest stocking inventory of sheet rubber rolls on the west coast. Contact us for assistance in selecting the optimum material for your application.



Epi-EPDM™ P60

Designation: EPDM
Duro: 60A
Type: Premium
Advantage: Ozone & weather resistance
Limitation: Chemical & tear resistance
Upgrade to: Consult Epic Polymer
Primary Use: Weather barriers



Epi-EPDM™ CG60

Designation: EPDM
Duro: 60A
Type: Commercial grade
Advantage: Weather resistance
Limitation: Limited mechanical properties
Upgrade to: Epi-EPDM™ P60
Uses: Outdoor rubber applications



Epi-EPDM™ PC160

Designation: Reinforced EPDM
Duro: 60A
Type: Premium grade
Advantage: Tear resistance
Limitation: Chemical resistance
Upgrade to: Consult Epic Polymer
Uses: Outdoor mechanical parts



Epi-Neo™ P60

Designation: CR, Chloroprene, Neoprene
Duro: 60A, 80A
Type: Premium
Advantage: Excellent range of balanced properties
Limitation: High abrasion
Upgrade to: Consult Epic Polymer
Uses: General industrial parts



Epi-Neo™ CG60

Designation: CR, Chloroprene, Neoprene
Duro: 60A, 80A
Type: General Industrial
Advantage: Economical range of properties
Limitation: Chemical & temperature
Upgrade to: Epi-NEO™ P60
Uses: Most common industrial grade



Epi-Neo™ PNI70

Designation: Reinforced Neoprene
Duro: 70A
Type: Industrial grade
Advantage: Tear resistance
Limitation: Chemical & chemical
Upgrade to: Consult Epic Polymer
Uses: Diaphragms & aprons



Epi-Neo™ CCI70

Designation: Reinforced Chloroprene
Duro: 70A
Type: Commercial grade
Advantage: Tear resistance
Limitation: Chemical & temperature
Upgrade to: Epi-NEO™ PNI70
Uses: Aprons, skirts and industrial parts



Epi-Neo™ CNI70

Designation: Reinforced Chloroprene
Duro: 70A
Type: Commercial grade
Advantage: Tear resistance
Limitation: Chemical & temperature
Upgrade to: Epi-NEO™ PNI70
Uses: Diaphragms and industrial parts



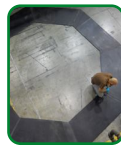
Epi-Foam™ CC40 (2A1 & 2A2)

Designation: CR / Chloroprene Blend
Type: Industrial Grade
Advantage: Economical sealing material
Limitation: Mechanical & temperature
Upgrade to: Specification grade (Consult Epic)
Uses: Industrial weatherstripping



Epi-Sil™ CG-SS80

Designation: PVQ, PVM, SE (Polysiloxane Elastomer)
Duro: 80A (Various Available)
Type: General grade
Advantage: Temperature & consistent duro
Limitation: Mechanical, tear & abrasion
Upgrade to: Specification grade (Consult Epic)
Uses: High temperature



Epi-SBR™ CG60, CG80

Designation: SBR
Duro: 60A, 80A
Type: Economical commercial grade
Advantage: Economical range of properties
Limitation: Mechanical & chemical
Upgrade to: Epi-Nat™ CG40, Epi-NEO™ CG60
Uses: Industrial impact & wear parts



Epic RSP80™

Designation: SBR, RSP, Sheet Packing
Duro: 80A
Type: General service
Advantage: Economical
Limitation: Temperature & pressure
Upgrade to: Consult Epic Polymer
Uses: Industrial flange gaskets



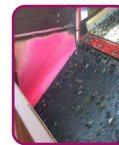
Epi-Sil™ CCS Sponge

Designation: PVQ, PVM, SE (Polysiloxane Elastomer)
Type: Industrial grade
Advantage: Temperature & compression set
Limitation: Mechanical (tear & abrasion)
Upgrade to: Specification grade (Consult Epic)
Uses: Electrical seals & gaskets, High Temperature



Epi-Nat™ CG40

Designation: NR, NAT, Gum
Duro: 40A
Type: Commercial grade
Advantage: Wear & abrasion
Limitation: Weather (UV, ozone) & oils
Upgrade to: Epi-Shield™
Uses: Industrial wear parts



Epi-Shield™

Designation: Nat, Gum Rubber, NR
Duro: 40A
Type: Premium
Advantage: Exceptional abrasion resistance
Limitation: Weathering (ozone & UV)
Upgrade to: Consult Epic Polymer
Uses: Slurry tank & pipe liner



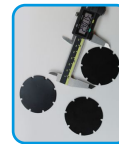
Epi-NBR™ P60, P60FDA

Designation: NBR, Nitrile, BUNA-N
Duro: 60A
Type: Premium
Advantage: Fuel resistant
Limitation: Strong acids
Upgrade to: Epi-Viton™ P70 (Consult Epic)
Uses: Food grade seals & gaskets



Epi-NBR™ CG60

Designation: NBR, Nitrile, BUNA-N
Duro: 60A
Type: General service
Advantage: Economical range of balanced properties
Limitation: Limited mechanical & chemical
Upgrade to: Epi-NBR™ P60
Uses: General industrial parts



Epi-Viton™ P70

Designation: FKM
Duro: 70A
Type: Premium grade
Advantage: Exceptional chemical & temperature
Limitation: Hydrocarbons and polar solvents
Upgrade to: Consult Epic Polymer
Uses: Seals & gaskets



Epic Vypur™ S Series

Designation: Cast Elastomer Polyurethane
Duro: Various
Type: Premium grade
Advantage: Abrasion resistance
Limitation: Temperature & moisture
Upgrade to: Consult Epic Polymer
Uses: Wear liners & industrial parts



Epic Vypur™ SVI Series

Designation: Cast Elastomer Polyurethane
Duro: 85A - 95A
Type: Premium grade
Advantage: Wet abrasion & impact
Limitation: Temperature & steam
Upgrade to: Consult Epic Polymer
Uses: Impact parts



Epic Vypur™ M Series

Designation: Cast Elastomer Polyurethane
Duro: 70D, 75D, 84D
Type: Premium grade
Advantage: Exceptional wear & loads
Limitation: Temperature & steam
Upgrade to: Consult Epic Polymer
Uses: Mechanical & structural parts



Epic Protivity™ Matting

Designation: Protivity™ Series Industrial Matting
Configuration: Ribbed, plain, button-top, diamond, anti-fatigue
Uses: Runner matting, floor covering, floor protection, employee comfort



Epic Vypur™ Deadplate

Designation: Cast Elastomer Polyurethane
Duro: 54A
Type: Premium impact grade
Advantage: Absorb severe impact
Limitation: Weather & mechanical wear
Upgrade to: Consult Epic Polymer
Uses: Heavy impact bumpers



Epic Vypur™ Ultra66

Designation: Cast Elastomer Polyurethane
Duro: 62A
Type: Premium grade
Advantage: Exception physical properties
Limitation: Steam & temperature
Upgrade to: Consult Epic Polymer
Uses: Severe duty parts, seals & gaskets



Beyond Industrial Strength™

Toll Free: 1.855.625.8800
www.EpicPolymer.com

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 Langley, BC V1M 3B3

USA: 1901 Schurman Way
 Woodland, WA 98674

How to Select Rubber

Rubber & Urethane elastomers are very unique materials. No other compound can duplicate their range of desirable properties. Unlike other engineering materials such as plastic or metal, rubber and urethane elastomer often do not have as clearly defined design criteria. This is because there are so many interdependent variables which effect performance. Successful rubber material selection often relies heavily on the designer's application experience.

Although there may be comparatively few "types" of rubber but

there are infinite variations of factors which effect material performance, such as formulation, hardness, chemical compatibility, dynamic and static forces, mechanical properties, temperature, abrasion, part geometry, installation technique and cost -- just to name a few.

Due to this complex interaction, it is critical that your elastomer selection be rigorously tested in actual application so performance assumptions may be checked against your application's unique variables. We also recommend that you contact Epic Polymer for input on design specification and engineering support.

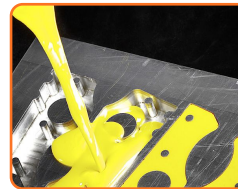


What is "Rubber"?

"Rubber" refers to elastomeric compounds that consist of various monomer units forming polymers that are heat cured (vulcanized). Polymers are long molecular chains that are connected together (cross-linked) to improve their toughness and resilience. The base monomer (or monomers, when blended) is used to classify the type of rubber. For example: Neoprene, SBR or Nitrile.

What is a Rubber Compound?

Engineered Rubber is composed of many different ingredients that include the base monomer, vulcanization agents, modifiers, fillers and plasticizers. The addition of modifiers improves physical properties and performance.



Why Does Rubber Act "Rubbery"?

An elastomer is made of two linked parts; a very viscous liquid encapsulated within an elastic solid. The polymeric chains in rubber tend to be very long and flexible which results in an entangled mass of contorted chains. Under load an elastomer is stretched causing these tangled chains to uncoil. They recoil to their original shape when the force is released. Therefore, elastic rebound or rubbery behaviour is observed, giving rubber it's resilient reputation.

Epic Services

- ▶ Compression Molding
- ▶ Extrusion
- ▶ Hot Vulcanizing
- ▶ Bonding to Steel & Metals
- ▶ Design & Engineering
- ▶ CNC Machining & Waterjet Cutting
- ▶ Custom Fabrication & Laminations
- ▶ Tool, Die & Mouldmaking

Why Epic Polymer?

With almost 40 years of experience in designing and manufacturing elastomers, our customers tell us that Epic Polymer is their first choice for industrial rubber products and solutions. From initial mechanical product design & engineering using the latest technical tools, including MathCAD and Solidworks, we complete solutions with in-house tooling and manufacturing for industry-leading turnaround times.



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