Epic Vypur[™]Ultra66

Product: Premium Grade Polyurethane

Colour: Black

Duro: 60A

Designation: PU, PUR (Cast Elastomeric Polyurethane)

Format: Sheet, Rod, Tube and Custom Molded Parts

Sample Application: Transmission Gasket

This transmission gasket made from Vypur™ Ultra66 offered exceptional compression-set and oil resistance, proving to be the only material that would survive the rugged service conditions, yet still be re-usable for multiple maintenance cycles.



An engineered elastomer grade of polyurethane designed for applications where very-soft, elastic rubber-like properties are required in combination with a low-compression set and exceptional abrasion, solvent and oil resistance.

Cast polyurethanes are tough, rubbery materials which can be depended upon to retain their original shape and properties for a long service life. Cost effective and dependable, these elastomers combine some of the performance advantages of engineering plastics, metals and ceramics along with the resiliency and flexibility of rubber.



Cut & Tear Resistant



Corrosion Resistant



Strong



Impact Resistant



Elasticity



Oil Resistant

Core Advantages:

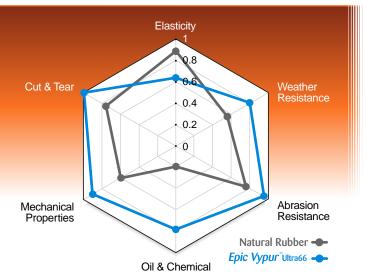
- Excellent elasticity and resiliance
- Excellent compression set
- Excellent Oil & Solvent resistance

Limitations:

- Avoid operation in the presence of water above +90°C as urethane can hydrolyse
- Colour can darken in exposure to UV
- Care must be taken when designing parts in dynamic applications to avoid excessive heat generation via hysteresis

Typical Applications

- ▶ Shaft seals
- ► Transmission gaskets
- **Bumpers**
- ▶ Pulley & roll covers
- ▶ Impact pads
- ▶ Wipers & squeegees
- ▶ Sorter wheels



Toll Free: 1.855.625.8800 www.EpicPolymer.com



Beyond Industrial Strength™

CANADA: Unit 2 – 19695 92A Avenue Langley, BC V1M 3B3

USA: 1901 Schurman Way Woodland, WA 98674



Premium Grade Polyurethane

Properties	Specification	Units	Typical Value
Grade			Ultra66
Durometer (Hardness)	ASTM D 297	Shore "A"	60 +/-5
Specific Gravity	ASTM D 297	g/cc	1.16
Tensile Strength	ASTM D 412	psi	4350
100% Modulus	ASTM D 412	psi	300
Flexural Modulus, 1 in/min	ASTM D 412	psi	500
Ultimate Elongation	ASTM D 412	%	480
Compression Set - 22 hr @ +70°C	ASTM D 395, Method B	%	6
Temperature Range		°C (°F)	-60° to +83°C (-76° to +181°F)
Bayshore Rebound		%	30
Notched Izod Impact	ASTM D 476	ft-lb/in	Flexed
Tear Resistance, Initial	ASTM D 624, Die C	pli	190
Tear Resistance, Propogation	ASTM D 470	pli	22

Unless otherwise stated, all Epic sheet rubber is provided to standard RMA Rubber Tolerances.

Chemical Resistance

For detailed Chemical Resistance, please consult the Epic Polymer Material Chemical Compatibility Chart

Design Considerations:

Epic Polymer recommends contacting us directly for input on design considerations and engineering.

Ask us about our custom cutting, stamping and fabricating services: All sheet rubber products are available in many formats, including full rolls, sheets, cut- to-size strips and blocks as well as custom-fabricated and



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die-cut parts. Epic Polymer offers a quick-ship service to process in-stock sheet orders in as little as 24 hours if required.

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