



Sample Application: Concrete Parking Structure

Product: Engineered Structurally Reinforced Bearing Rubber

Colour: Black

Duro: 75 +/-5

Designation: Improved ROF, Fibre Reinforced

Format: PTFE Bonded Sheet, Strips & Cut-to-Size

Fast track construction using pre-cast concrete modules has been a fast growing market, replacing traditionally cast-in-place structures. Parking garages were one of the pioneering types of structures for pre-cast applications, using the advantages of pre-cast/pre-stressed members, resulting in longer spans with higher load capacity. We support this market with our new **Dynamex™ LOAD+** bearing which are typically used under beams, Tees, hollow core slabs or girders.



“Random” Oriented Fiber Bearings just got a whole lot less random.

Dynamex™ LOAD+ is the next generation of engineering material for structural load-bearing applications where ROF bearings can be used. A high-performance specification grade composite made of high strength weather & ozone resistant elastomers vulcanized with synthetic reinforcing fibers. Unlike traditional “random” oriented fiber bearings **Dynamex™ LOAD+** is manufactured using a multi-axis lamination process prior to vulcanizing which ensures a more predictable, uniform structure to the bearing; enabling high compressive strengths in all directions, providing the basis for a robust design calculation module.

Compressive design loads exceeding 13 N/mm² (1,885 psi) and ultimate compressive strength exceeding 100 N/mm² (14,500 psi); **Dynamex™ LOAD+** is more than 50% stronger than the “traditional” ROF bearings and exceed technical requirements of the PCI Design Handbook (April 2014). They are designed for modern structural projects with greater load requirements. Additional benefits include enhanced tensile properties, improved stiffness, stronger tear resistance, increased durability, and superior weatherability in outdoor applications. The combination of these properties is unmatched in the market.

Stocked from 3/8" thick through 1" thick, **Dynamex™ LOAD+** pads can be supplied in full sheet, strips, as well as cut-to-size and fully fabricated per your application specifications to minimize on-site handling and eliminate the need for costly field fabricating. Specify **Dynamex™ LOAD+** for your application.



Weather Resistant



Energy Dissipative



Structurally Reinforced



High Load Bearing

Core Advantages:

- ▶ Evenly distributes vertical loads between two structural elements to eliminate localized stress and corresponding structural damage
- ▶ Allow horizontal and/or rotational movements at the bearing surface to help reduce the effects of temperature, creep & shrinkage
- ▶ Accommodates non-parallel, load bearing surfaces
- ▶ Significantly exceeds most design engineering specifications
- ▶ Reduces electrolytic action between dissimilar metal elements
- ▶ Minimize transmitted vibration and shock isolation between contact surfaces in structural applications

Typical Applications

- ▶ Precast and prestressed concrete structures
- ▶ Pedestrian overpass & walkways
- ▶ Pads between bridge roof beams and substructures
- ▶ Masonry pads
- ▶ Structural steel connections (pads between steel beams, girders & columns)
- ▶ Industrial load, shock and vibration isolation
- ▶ Machinery & equipment isolation
- ▶ Lighting standard seats
- ▶ Handrail mounting pads
- ▶ Railway tie pad applications



Toll Free: 1.855.625.8800

www.EpicPolymer.com



EPIC
POLYMER

Beyond Industrial Strength™

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

USA: 1901 Schurman Way
Woodland, WA 98674

Properties	Specification	Units	Typical Value
Durometer (Hardness)	ASTM D 2240	Shore 'A'	75 +/-5
Density	ASTM D 297	g/cm3	1.20
Tensile Strength	ASTM D 412, Die C	PSI (MPa)	1000 (7.0), +/-10%
Ultimate Elongation	ASTM D 412	%	40%
Heat Resistance 70 hrs @ +70°C	ASTM D 573		
Durometer (Hardness)		Δ Shore 'A'	+/-10
Tensile Strength		Δ %	+/-25
Ultimate Elongation		% Δ	+/-25
Ultimate Compressive Strength	ASTM D 412	PSI	14'500
Tear Strength	ASTM D 624, Die B	lb/in min.	400
Ozone Resistance	ASTM D 518 B	---	PASS
Low Temperature Resistance @ -40°C	ASTM D 2137	---	PASS

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

Precast concrete slab



Concrete stair assemblies



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