



Overview

Durethane® XL has been meticulously engineered for the highest levels of performance and durability in the harshest conditions. Our proprietary polycarbonate formulations make use of the latest in polyurethane chemical technology to give Durethane® XL superior resistance to heat, aging and hydrolysis. Durethane® XL can be made into any shape component, solid or foam.



Benefits

- Excellent tear strength and abrasion resistance for longer life & reduce maintenance costs
- Higher operating temperature range, without sacrificing physical properties
- Increased resistance to humidity, chemicals, and other corrosive substances
- Stable product performance in extreme environments
- Can be made conductive using our patented metal salts technology

Applications

Durethane® XL is the most durable Durethane® yet! It's superior physical properties and MPC's unmatched quality make it the perfect material for the toughest applications, including:

- Military & Defense
- Marine
- Oil & Gas
- Waste Processing
- Automotive
- Heavy Machinery



Physical Properties

Our trade-secret formulations allow us to achieve a wide range of physical properties, including:

- Hardness range from Shore 70A to 90A¹
- Tensile strength range from 3000 PSI to 5000 PSI²
- Tear strength range from 225 to 375³
- Compression set range from 17% to 20%⁴

¹ASTM D2240, Shore A

²ASTM D3574A

³ASTM D624, DIE C

⁴ASTM D395B @ 158F, 22HRS



Physical Properties for Durethane® XL Materials

Name	Hardness	Tensile Strength	Elongation	Tear Strength	Compression Set
	Shore A or D	PSI	%	DIE-C (PLI)	%
DXL1070A	70A	3000	575	225	17
DXF1080A	80A	4000	525	275	20
DXL1090A	90A	5000	425	375	20