



Overview

Durethane® G uses our proprietary graphite technology to create a high-strength material with unique physical properties. The embedded graphite provides this material with natural lubricity and enhances some of the polyurethane's physical properties. At a hardness of 70D (shore scale), Durethane® G approaches the hardness of some metals. Durethane® G can be made into any shape or machined to precise specifications.

Benefits

- Avoids the use of harmful or messy lubricants
- Long component life and reduced maintenance requirements
- Quiet operation when used for moving parts (i.e. gears)
- High abrasion resistance and tolerance to tight surface finish
- Resistant to corrosive environments

Applications

Durethane® G is ideal for products or components that require flawless performance, are difficult to maintain or are in corrosive environments. Due to its unique properties, Durethane® G has become a standard for many mission-critical applications, including:

- Military & Defense
- Industrial Automation
- Robotics
- Automotive
- Heavy Machinery & Equipment
- Exercise Equipment

Physical Properties

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

- Abrasion Resistance
- Tear Strength
- Chemical Resistance
- Elongation
- And many more



Physical Properties for Durethane® G DG770D

Property	Value
Hardness	70 Shore D
Specific Gravity	1.18
Tensile Strength	5000 PSI MIN
Compression Deflection	700 PSI MIN @ 2% Def.
Tensile Impact	300 FT-LB/SQ IN† (Type L Specimen)
Water Absorption	1.5% Max. (1 week at R.T.)
Elongation	150%
Compression Set	40%
Available for Durethane® Standard Shapes	Yes

† These values are minimum averages. Seperate specimen values may not vary more than 25% under the specified minimum.