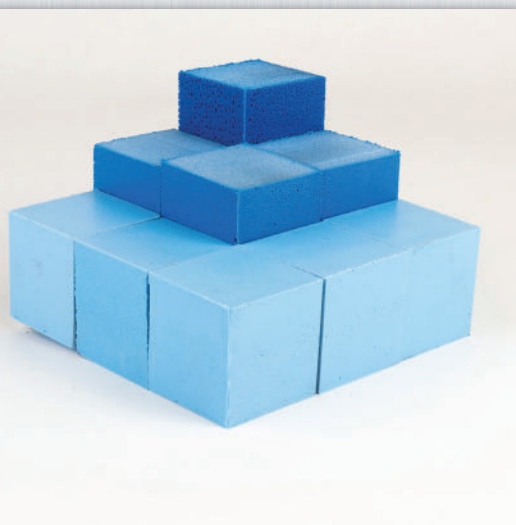


Overview

Durethane® F is our adaptable polyurethane foam technology. We create Durethane® F by introducing blowing agents to the material chemistry, which generates gas bubbles and embeds a cellular structure in the cured material. This proprietary foaming process allows us to engineer foams with open or closed cells and a wide range of specifiable physical properties.



Benefits

- Self-cleaning pores shed debris, reducing maintenance costs and extending product life
- Prevents glazing, maintaining product performance over time and wear
- Cell size and structure can be customized, along with the material's physical properties
- Available with a variety of surface finishes, including integral skin
- FDA-compliant formulations available
- Can be made conductive using our patented metal salts technology

Applications

Durethane® F is the most versatile of our polyurethane technologies. Its flexible chemistry allows us to adapt the material for a variety of applications, including:

- Shock Absorption
- Material Handling
- Conveyance Systems
- Digital Printing & Imaging
- Currency Handling
- Bumpers & Cushions



Physical Properties

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

- Hardness range from Shore 25A to 50A¹
- Tensile strength range from 800 PSI to 1400 PSI²
- Tear strength range from 100 to 160³
- Elongation range from 330% to 700%⁴

¹ASTM D2240, Shore A

²ASTM D3574A

³ASTM D624, DIE C

⁴ASTM D412

Physical Properties for Durethane® F Materials

Name	Hardness	Backbone	Tensile Strength	Elongation	Tear Strength	Available for Durethane® Standard Shapes
	Shore A or D	TDI or MDI	PSI)	%	DIE-C (PLI)	
DF225A	25A		1000	575	100	√
DF230A	30A		1100	600	135	√
DF235A	35A		1250	625	142	√
DF240A	40A		1325	650	150	√
DF245A	45A		1400	700	160	√
DF640A	40A		900	700	100	N/A
DF750A	50A		800	330	130	N/A

LEDGEND



MDI Ether



MDI Ester



TDI Ester