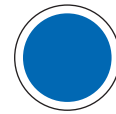


Amera-Thane™

IMPACT RESISTANT POLYURETHANE



Color Code:
BLUE

Amera-Thane is our own outstanding formulation of thermo-set polyester polyurethane. It is uniquely molded to produce a superior impact resistant plate with the smoothest surface possible and a low coefficient of friction. Amera-Thane is certified as complying with FDA Article 121.2522, and can be used as the contact surface for grain and other dry bulk foods.

Amera-Thane is poured to order, and is also available with 16GA expanded steel backing for rigidity and installation.

Typical Mechanical Properties

Property	Units	Test Method	Results
Shore A hardness		ASTM D-2240-64T	87 ± 1
Split tear strength	psi	Fed. spec. 601-M-4221 mod.	315+
Tensile strength	psi	ASTM D-412-62T	7200+
Ultimate elongation	%	ASTM D-412-62T	570-580
Break set	%	ASTM D-412-62T	10
100% modulus	psi	ASTM D-412-62T	725
200% modulus	psi	ASTM D-412-62T	1100
300% modulus	psi	ASTM D-412-62T	1500
Compression set	%	ASTM D-395-61 (B)	35
Compression deflection	psi	ASTM D-575-46	80
2% deflection			170
5% deflection			310
10% deflection			440
15% deflection			590
20% deflection			740
50% deflection			2150
ASTM No. 1 oil (125°C, 70 hrs.)	% tensile retention	ASTM D-741-63T	43
ASTM No. 3 Oil (125°C, 70 hrs.)	% tensile retention	ASTM D-741-63T	50
Humidity aging (70°C, 100% R.H.)	% tensile retention/2 wks.	ASTM D-1349-62	60
Humidity aging (121°C, 15 psi)	% tensile retention/24 hrs.	ASTM D-1349-62	25
Heat aging (125°C, 150°C)	% tensile retention/72 hrs.	ASTM D-1564-65	83, 28
Glass transition, Clashberg	°C	ASTM D-1043-61T	-35
Solenoid impact	°C	ASTM D-746-57T	-35
TMA penetrometer, melt transition (74 lb, 1800 min ¹ , 0.2" amp)	°C		+173
	Minutes to failure	ASTM D-623-62	12
Zwick flex life	Cycles to failure	ASTM D-813-59	105
Taber abrasion (H-18, 1 kg, 10 ³ cycles)	mg loss	ASTM D-1044-56	8.5
NBS abrasion index	% rubber standard	ASTM D-1630	250
Outdoor aging	% tensile retention/1 yr.	ASTM D-412-62T	60

Applications

- Belt skirting
- Cutting pads
- Conveyor scrapers
- Duct work elbow
- Gaskets
- Guides
- Impact pads
- Impact skirts
- Idler wheels
- Slides
- Spout linings
- Strippers
- Sorter blocks
- Truck bed liners
- Wear pads
- Wiper blades

Available Sizes

Amera-Thane Sheets Poured to order – 48" x 120" max. length/width

Amera-Thane Bars Molded to order