



Crosslinked Polyethylene

Product Characteristics/Uses:

- Packaging
- Static Dissipative
- Thermal and Impact Insulation
- Gaskets
- Seals
- Cushioning
- Buoyancy
- Dunnage (class A)
- EKG & Surgical Devices
- Transdermal Pads
- Cervical Collars
- Floor Underlayment
- Joint & Building Filler Strips
- Window Glazing Tape
- Aircraft Interior

Merryweather is a distributor of Voltek crosslinked, closed-cell polyolefin foams: Volara, Volextra and Minicel. All three products are smooth, inert, nontoxic, contain no CFC, HCFC or hydrocarbon blowing agents and are available in a variety of colors and grades to achieve varied physical properties.



Volara is a fine celled, irradiation crosslinked foam with a smooth surface and chemical resistance manufactured in rolls or laminated sheets:

Thickness range unlaminated from .015" to .420"

Gauge tolerance + & - is 1/8=10%; 1/16=15%; 1/32=20%

width standard is 60"

density range 2 to 20 pcf

firmness soft to semi-rigid

Fire retardant formulas are AFR and MF

Food contact grades A,E and EO meet FDA regulations

GRADE	MATERIAL	PROPERTIES	TYPICAL APPLICATIONS
A	Polyethylene (LDPE)	Mid Range	General Use
EO	12% VA	Flexibility & softness	Tape applications, sporting goods
G	18% VA	Increased flexibility & softness	Sporting goods, seals
M	Polyethylene (MDPE)	Higher temperature resistance, stiffer	Aircraft seats, automotive watershields, sporting goods
LS	Polyolefin Alloy	High strength tape substrate	Pressure-sensitive tape
AS	Polyethylene Alloy	Tough, enhanced vacuum formability	Automotive, sporting goods
RS	Polypropylene Alloy	High performance pressure forming properties, high temperature resistance, and stiffness	Automotive low pressure molding processes
VS	Polypropylene Alloy	High performance vacuum forming properties, high temperature resistance and stiffness	Automotive vacuum forming
XS - *S	New Resin Systems	Developmental properties for new markets	New markets



Minicel is an extremely fine-celled chemically crosslinked closed cell polyolefin foam for thicker applications with a smooth surface and chemical resistance.

Thickness range up to 3" (depending on density)

Width 48" length 54" (depending on density)

Firmness soft to semi rigid

Fire retardant formula L200F to FAR25/853B

TYPE	MATERIAL	PROPERTIES	TYPICAL APPLICATIONS
L	Polyethylene (LDPE)	Mid range	General Use
T	12% VA	Flexibility & softness	Sporting goods, seals
G	18%VA	Increased flexibility & softness	Sporting goods, seals
M	Polyethylene (MDPE)	Higher temperature resistance, stiffer	Packaging, sporting goods
LS	Polyethylene alloy	Flexible S type with low compression set	Specialty applications
MS	Polyethylene alloy	Firmer S type with low compression set	Specialty applications
TS	Polyolefin alloy	Most flexible S type with low compression set	Specialty applications replacing rubber foams
XS - *S	New resin systems	Developmental properties for new markets	New Markets



Volextra is extrusion coated Volara to add skid resistance, decorative textures or moisture resistance.

Coating resin: HDPE,LDPE,LLDPE,PP,EVA,TPE,TPR

Thickness of coating 4-40 mils (dependent on resin)

PRECAUTIONS should always be taken when storing or using polyolefin foams because they are combustible; even those grades with fire retardant additive. The National Fire Protection Association Rating for storage of Volara and Minicel is Group A, Class 6, Group A Expanded Plastics.

TYPE	MATERIAL	PROPERTIES	TYPICAL APPLICATIONS
EVA	Ethylene vinyl acetate copolymer	Flexible, high friction surface	General Use
PP	Polypropylene	Stiffness, surface toughness	General Use
HDPE	High density polyethylene	Stiffness, surface toughness	General Use
TPE	Thermoplastic elastomer	Appearance of PVC without plasticizer	Automotive headliners and interior trim
TPR	Thermoplastic elastomer/rubber	High friction surface	Nonskid surfaces
LDPE	Low-density polyethylene	Surface toughness, bright colors	General Use
LLDPE	Linear low-density polyethylene	Surface toughness	General Use