



ecoflex™

Superior density control and sustainability.

INTEGRAL SKIN & FLEXIBLE FOAMS



Integral skin foams with the look, feel
and performance you need.

Integral Skin

Ecoflex™ integral skin foam systems produce best quality products with premium “fit & finish.” Inner foam densities range from pillow soft to very firm, with skinning that provides intricate decorative detail and rich, bold, vibrant color. Ecoflex integral skin foam systems are customizable to best suit your needs. Whether you would like to utilize UV stabilizers or anti-bacterial additives, FSI is your turnkey solution provider to customize formulas that achieve the results you desire.

Uses

✓
Steering
Wheels

✓
Gearshift
Knobs

✓
Medical
Applications

✓
Headrests &
Armrests

✓
Furniture

✓
Sporting
Goods

✓
Footwear

✓
Promotional
Items

ecoflex™	IS 1004	IS 1005	IS 1006
Molded Density kg/m³ (pcf)	335 (20.9)	243 (15.2)	240 (15.0)
Tensile Strength kPa (psi)	1739 (252)	3191 (463)	2050 (297)
Tear Resistance N/m (pli)	7084 (40.5)	7946 (45.4)	5517 (31.5)
Elongation	153%	159%	157%
IFD @25% – N (lb _f)	N/A	N/A	N/A
IFD @65% – N (lb _f)	N/A	N/A	N/A
Dry Compression Set @50%	5.4%	6.2%	5.1%



Relax, you've got Ecoflex™ to meet all
of your flexible foam needs.



Flexible Foams

Ecoflex™ flexible foam systems, made with Ecomate® blowing agent technology, offer a wide range of processing latitudes and possess physical properties that are equal to or greater than HFC-blown systems. Flexible foams made with Ecoflex produce unrivaled performance results in many aspects of product design including comfort factors, noise reduction and tear resistance. With the versatility you should expect from a flexible foam system, Ecoflex also offers the possibility of significantly low density ranges, as low as 2.5 pcf.

End Use Applications

✓ Automotive Seating	✓ Furniture
✓ Pillows	✓ Bedding
✓ HVAC Components	✓ Footwear
✓ Carpet Padding	✓ Vibration & Sound Dampeners
✓ Textiles	✓ and more!

Typical Laboratory Results

Components measured by weight and hand mixed at 25°C (77°F).

ecoflex™	HR 1001	HR 1002	VEM 1001	VES 1002	HSS 1001	HSS 1002
Molded Density – kg/m ³ (pcf)	40 (2.5)	128 (8.0)	40 (2.5)	Slab 41 kg (2.55 pcf)	Slab 44 kg (2.75 pcf)	38 (2.4)
Tensile Strength – kPa (psi)	148 (21.4)	129 (19.0)	55 (8.0)	71.7 (10.4)	52.4 (7.6)	89 (13.0)
Tear Resistance – N/m (pli)	492 (2.8)	629 (3.6)	280 (1.6)	350 (2.0)	1,000 (5.7)	645 (3.7)
Elongation	158%	183%	176%	390%	570%	414%
IFD @25% – N (lb _f)	45 (32.7)	284 (63.8)	76 (17.0)	9.2	17.2	23.4 (5.3)
IFD @65% – N (lb _f)	37 (98.3)	814 (183.0)	157 (35.3)	17.9	34.4	56.9 (12.8)
Dry Compression Set @50%	4%	2.8%	1.3%	2.1%	1.5%	42.9%



The benchmark of environmental
compliance and responsibility.

Environmental Stewardship

FSI has been a steward of the environment since our founding, and Ecoflex™ is a prime example of how our commitment continues on. Powered by our patented EPA SNAP compliant Ecomate® blowing agent technology, Ecoflex is an environmentally friendly solution that has NO Global Warming Potential (GWP), NO Ozone Depletion Potential (ODP) and is VOC-exempt, meaning it does not contribute to SMOG.

Ecoflex also meets the requirements of the Montreal and Kyoto Protocols and the Kigali Amendment, helping companies around the world make better products that are better for the environment.



Sustainability

During our 50+ year sustainability journey, we have evolved our policies, practices, processes and decision-making as we seek to protect our earth's resources. We plan for the future by integrating environmental stewardship into every facet of our business — including our products, our processes and our workplace. We know that small steps can have a big impact.



A WORLD LEADER IN POLYURETHANE TECHNOLOGY AND SOLUTIONS



Ecoflex™ is available worldwide through our network of global partners. For a complete list, visit fsi.co or scan the code below.



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