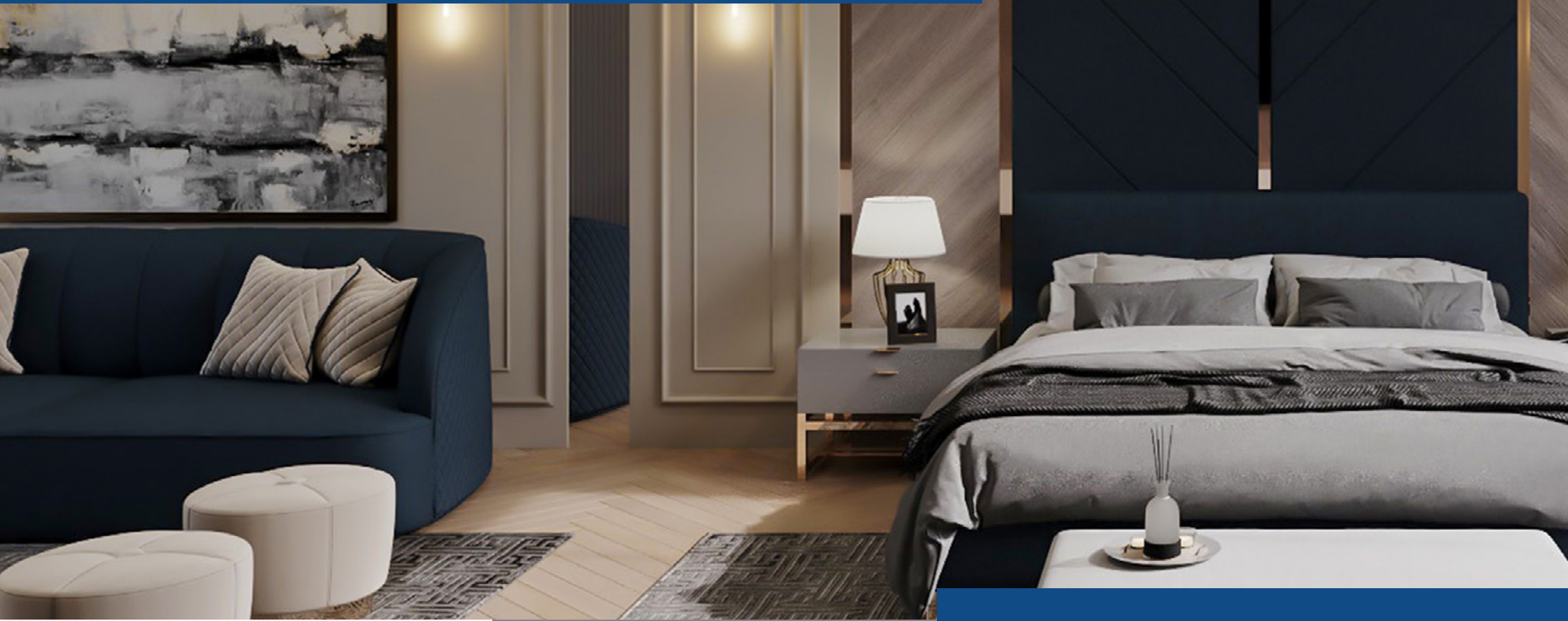


vitafoam

BRINGING COMFORT INTO YOUR LIFE



VITAFOAM CATALOGUE

TECHNICAL PREMIUM RANGE

SPECIALTY FOAM



Current Foam Grade	New Foam Grade	Colour	Class	Type	Grade	In House Hardness range		Core Density	Nominal Density
						Newtons SANS 883	Kilograms SANS 640 *	Kg/M ³	Kg/M ³
SS 32 Gel	GelPolyFlex	Spotted Blue	S	LB	100	86 - 110	8.6 - 11.0	30.0 - 33.0	32
SS 32 Copper Cool	Copper Cool 32	Grey spotted copper	S	MB	100	86 - 110	8.6 - 11.0	30.0 - 33.0	32
R400H	Reflex400	White	V	HB	170	155 - 190	16.3 - 18.3	48.0 - 51.0	50
VE45 Medium	VitaMemoryFlex-M 450	Yellow	V	LB	50	41 - 60	6.0 - 8.6	43.0 - 46.0	45
VE55 Gel	GelFlex	Spotted Blue	V	LB	50	41 - 60	4.0 - 8.6	53.0 - 56.0	55
Copper Gell	Copper Gell	Copper spotted copper particles	A	LB	50	17.3 - 19.4	17.3 - 19.4	21.0 - 24.0	23
Dual Phase/ Thermo Breeze	Dual Phase/Thermo Breeze	White spotted pink and blue	V	LB	50	41 - 60	5.6 - 7.6	40.0 - 46.0	45

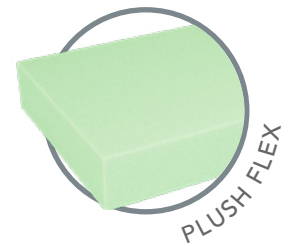
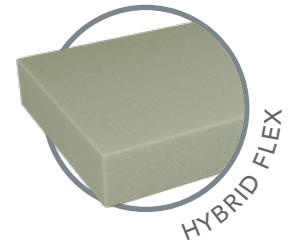
Embark on an unmatched comfort journey with Technoflex, our state-of-the-art foam range. Crafted using cutting-edge methods, it provides tailored solutions for varying preferences. Experience the pinnacle of luxury, durability, and support with a range of densities and materials that set new industry standards.

Elevate your relaxation with Technoflex, where innovation meets indulgence.

Compression	Elongation	Tensile	Recommended Application
% Max	% Min	KPa min	
10	150	70	Ultra Premium - Quilting; Mattress Topper for Thermal Regulation
10	150	70	Ultra Premium - Quilting; Mattress Topper for Thermal Regulation
8	90	50	Ultra Premium - Mattress Topper; Mattresses; Seat Cushions
8	90	50	Ultra Premium - Mattress Topper; Plush Seat Layer
8	90	50	Ultra Premium - Mattress Topper; Plush Seat Layer with Thermal Regulation
10	90	50	Medium to Premium Firm - Mattress Topper; General Upholstery; Mattresses; Seating
8	90	50	Medium to Premium - Mattress Topper; General Upholstery; Mattresses; Seating



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TECHNICAL PREMIUM RANGE

SPECIALTY FOAM



Current Foam Grade	New Foam Grade	Colour	Class	Type	Grade	In House Hardness range		Core Density	Nominal Density
						Newtons SANS 883	Kilograms SANS 640 *	Kg/M ³	Kg/M ³
Black Diamond Gell	Black Diamond Gell	Grey spotted silver particles	V	LB	50	41 - 60	4.5 - 6.0	40.0 - 46.0	45
Plusflex	PlushFlex	White	V	HB	50	41 - 60	4.0 - 6.0	40.0 - 46.0	45
Latex Soft	PolyLatex-S	Pink	V	HB	70	61 - 85	8.6 - 11.0	63.0 - 66.0	65
HybridFlex	HybridFlex	Lilac	S	LB	50	41 - 60	4.5 - 6.0	40.0 - 46.0	45
VP45FR	VP45FR	Grey	A	MB	130	115 - 150	13.2 - 15.3	21.0 - 24.0	23
VP70FR Olive	VP70FR Olive	Olive	S	MB	130	115 - 150	11.8 - 15.3	27.0 - 31.0	30

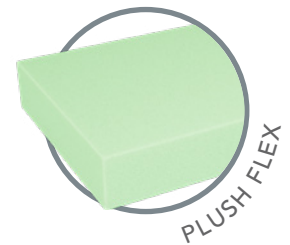
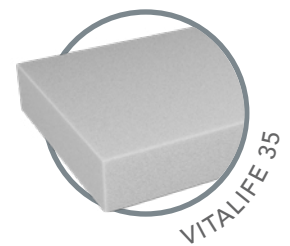
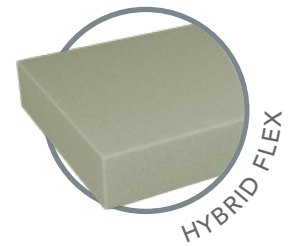
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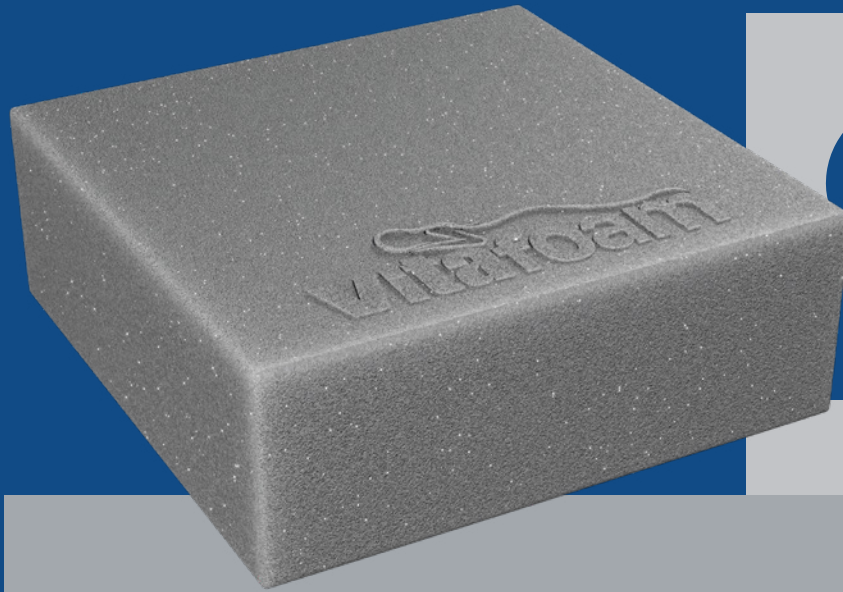
Elevate your relaxation with Technoflex, where innovation meets indulgence.

Compression	Elongation	Tensile	Recommended Application
% Max	% Min	KPa min	
8	90	50	Ultra Premium - Mattress Topper; Plush Seat Layer with Thermal Regulation
8	90	50	Ultra Premium - Mattress Topper; Plush Seat Layer
8	90	50	Ultra Premium - Mattress Topper; Mattresses; Seat Cushions
8	90	50	Ultra Premium - Mattress Topper; Plush Seat Layer
10	150	70	Medium to Premium - Mattress Topper; General Upholstery; Mattresses; Specialize flame retardent application
10	150	70	Medium to Premium Firm - Mattress Topper; mattresses, Specialized flame retardent application



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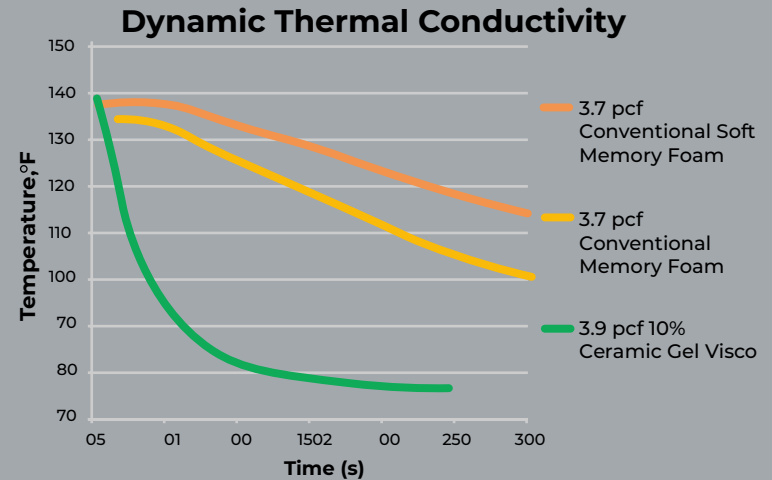


CERAMIC BLACK

SUPER-ENHANCED THERMAL CONDUCTIVITY

The infusion of micro-thin ceramic material into gel enhances its thermal conduction capability while preserving the soft, comfortable feel and high heat capacity. The resulting product, Ceramic Gel™, is 4 times more conductive than the original blue gel. Combining this with highly breathable, open-cell visco enables rapid heat and moisture dissipation and convective liberation of heat.

The addition of only 15% Ceramic Gel™ into open-cell visco results in a foam that has over 9 times the heat flow of conventional memory foam, which enables a much cooler and more comfortable sleep.



TECHNOFLEX

BROAD TEMPERATURE PERFORMANCE RANGE

The gel component of Ceramic Gel™ serves to widen the typical **temperature performance range of conventional memory foam by elongating its glass transition temperature**. This provides greater pressure relief and comfort across a wider range of temperatures, including cooler conditions where conventional memory foam stiffens.



VARIABLE AND DURABLE SUPPORT

A super-fine and flexible ceramic infusion adds enhanced conductivity to the **exceptional comfort and support characteristics** of gel. Individual ceramic-gel particles are able to interact in deep compression areas to provide pressure response that helps support and cushion the body.

This combination of high thermal conductivity with the comfort of gel results in cool, pressure responsive support for bedding and other applications.



COMPRESSION-CONDUCTION PROPERTIES

When microscopic ceramic surface **infused gel is compressed, significantly greater conduction of heat is facilitated** between the adjacent ceramic gel particles.

Compression leads to the closing of foam cells, inhibiting airflow so that convection is no longer favored. Heat is first transported via conduction through the ceramic gel particles to less compressed regions of the foam, where it is easily liberated by convective airflow



Willafoam

CopperGel™ is an exciting, new additive for open-cell CoolFlow™ and Energex™ foams, allowing microscopic, copper-infused gel particles to get incorporated into the cellular structure of the foam.

Copper is a completely natural and environmentally friendly mineral that serves as a required nutrient in many ecosystems and plays a vital role in many cellular functions in the human body. **Copper naturally provides protection against viruses and microbial growth to prevent odors and stains in the product.** The high conductivity of copper complements and enhances gel's thermal properties to help dissipate excess body heat, providing a cooler and more comfortable sleep.

COPPER HEALTH BENEFITS

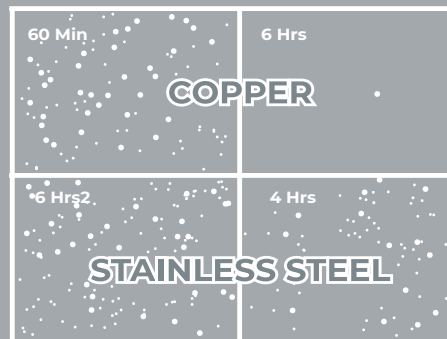
Numerous studies have outlined both the exceptional antimicrobial effects of copper and the benefit of human exposure. For example, it is shown to be 1,000 times more lethal to the Flu virus than stainless steel, with a contact kill rate of 99.999999% per hour.

Generally, no live organisms have been recovered after prolonged incubation of microorganisms on copper surfaces. This strong antimicrobial effect has also been shown to occur when bacteria and viruses are in close proximity to, but not directly in contact with copper particles.

When CopperGel™ foam is compressed, the otherwise evenly dispersed copper particles **become concentrated at the surface of the foam, forming an antimicrobial film** close to the human skin which amplifies the health benefits to the consumer.

These attributes make for a cleaner mattress and a more peaceful sleep.

Inactivation of Influenza A Virus on Copper versus Stainless Steel Surface



COPPER

GEL



TECHNOFLEX

VARIABLE SUPPORT PROPERTIES

Like other Peterson Thermo-Gel-infused foams, CopperGel™ **creates the feel of having the variable support of multiple layers of IFOs in just one layer of foam.** This effect is created through increasing interaction between adjacent gel particles as the foam is compressed, smoothly increasing the level of support as needed. At deep compression areas, the particles provide the pressure response of a pure gel, preventing the foam from bottoming out under heavy loads. Copper particles reinforce the gel by providing a solid core to the flexible gel particles for added support. CopperGel™ infused foam is thereby better able to withstand heavy loads of pressure without bottoming out or losing its support properties.

CopperGel™ is an exceptionally effective thermal regulator, combining the high heat.



CopperGel™ is an exceptionally effective thermal regulator, combining the high heat capacity and conductivity of gel with the hyper-conductivity of copper. Copper is one of the most conductive materials on Earth, with a **conductivity of up to 20,000 times higher than that of polyurethane foam.** When any foam, open- or closed-cell, is compressed by body weight, the cells become crushed, which restricts airflow and limits the liberation of heat through convection. With CopperGel™, compression has the positive effect of bringing copper and gel particles in contact with one another.

Allowing for rapid conductive heat transfer through the solid particles for lasting thermal comfort. Heat conducted through gel is ultimately liberated by convective heat flow as it reaches uncompressed areas of the mattress.



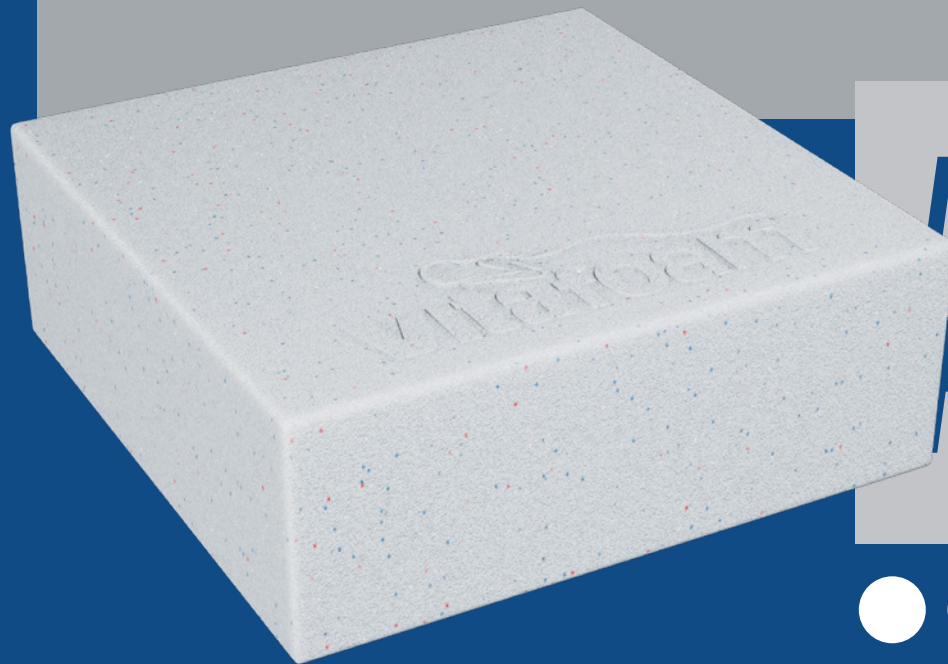
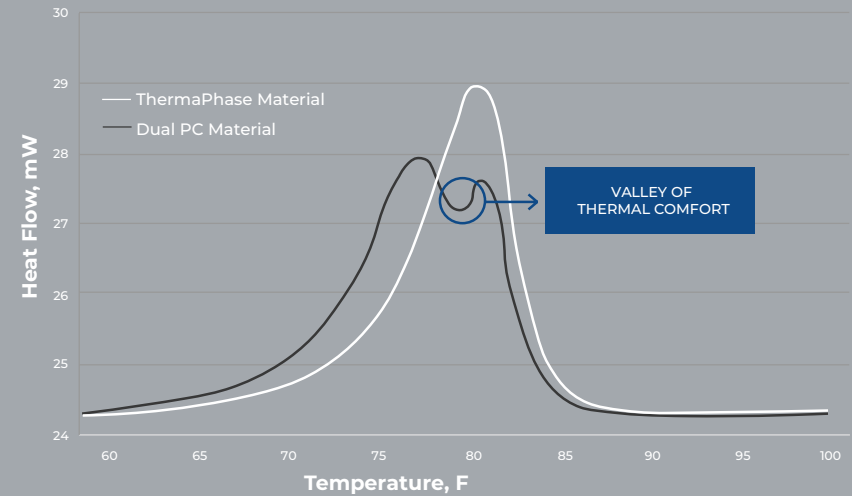
ENHANCED THERMO-REGULATION

Dual Phase Change technology **incorporates the thermoregulation of phase change materials into open-cell, viscoelastic gel-foam technology**, providing dramatically improved temperature regulation.

The Phase change materials contain in Dual Phase Change Gel serve to maintain the optimal human skin temperature during sleep by absorbing or liberating a large amount of heat through an infinitely reversible molecular transformation. The average transition temperature of the Dual PC material is lower than that of the original.

ThermaPhase™, ensuring its continued effectiveness even when buried under mattress covers and bed sheets.

Dual Phase Change Action



DUAL PHASE



TECHNOFLEX

VISCO-GEL HYBRID

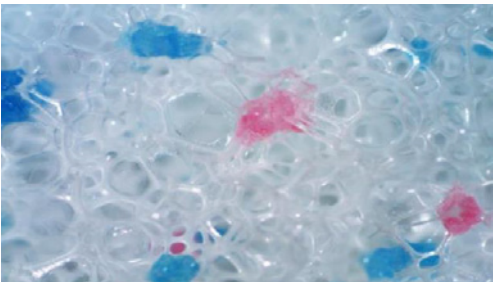
Dual Phase Change Gel combines **highly conductive, open-cell visco with the high heat capacity and conductivity of gel and two phase change materials** to produce a very powerful thermoregulator. The visco-gel hybrid provides a comfort zone of support that smoothly transitions between the luxurious softness of visco and the pressure response of pure gel at deep compression areas.

The highly durable material is designed to withstand high loads of pressure that would normally overload visco foams while retaining its height and support properties over time.



DUAL PHASE CHANGE ACTION

Dual Phase Change builds on the original ThermaPhase™ Gel combining two different phase change materials, resulting in a gentle thermoregulation across a broader range.



Each of the two phase change materials contained in the system target a different temperature on either end of the optimal sleep zone, allowing for **enhanced cooling and heating ability at the edge of the comfort range**. In a sense, these two materials act as gatekeepers at the extreme of the ideal sleep temperature.

This counteracts heat fluctuations in all parts of the body so the sleeper can remain in the valley of ideal temperature comfort.



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STANDARD RANGE
PREMIUM FOAMS

New Foam Grade	Colour	Class	Type	Grade	In House Hardness range		Core Density	Nominal Density
					Newtons SANS 883	Kilograms SANS 640 *	Kg/M ³	Kg/M ³
NovaFlexPeeling	White	A	MB	50	41 - 60	4.1 - 6.1	14.0 - 17.0	16
LHL 300	Pink	A	MB	130	115 - 150	11.8 - 15.3	17.0 - 20.0	19
LHL400	Light Pink	S	MB	130	115 - 150	11.8 - 15.3	27.0 - 31.0	30
SP14	Green	S	MB	100	86 - 110	8.6 - 11.0	27.0 - 31.0	30
SP15	Light Yellow	S	MB	70	61 - 85	6.0 - 8.6	27.0 - 31.0	30
LHL420	Pale Blue	V	MB	70	61 - 85	6.0 - 8.6	33.0 - 36.0	35
LHL450	Lilac/Dark Pink	V	MB	130	115 - 150	11.8 - 15.3	33.0 - 36.0	35

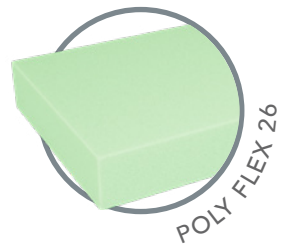
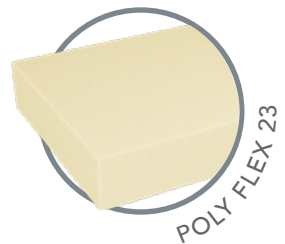
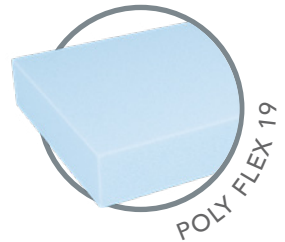
Our Polyflex range of foams is our traditional foam offering, designed to cater for all levels of comfort, support and durability providing our customers with a tailored solution to meet their applications.

Included in this range are foams from low to premium densities with varying comfort factors offering superior durability, recovery and service life. Using world class processing technologies and raw materials our trusted Polyflex products have become the industry standard.

Compression	Elongation	Tensile	Recommended Application
% Max	% Min	KPa min	
10	150	70	Medium Range - Peeling; Scatter Cushions; Backrests, Pillows
10	150	70	Medium Range - Quilting, Mattress Toppers; Backrests; Frame Padding; Mattresses
10	150	70	Premium - Mattress Topper; Mattresses; Seat Cushions
10	150	70	Premium - Mattress Topper; Mattresses; Seat Cushions
10	150	70	Premium Plush - Mattress Topper; Mattresses; Seat Cushions
6	150	70	Premium Plush - Mattress Topper; Mattresses; Seat Cushions
6	150	70	Premium - Mattress Topper; Mattresses; Seat Cushions



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STANDARD RANGE

STANDARD FOAMS

New Foam Grade	Colour	Class	Type	Grade	In House Hardness range		Core Density	Nominal Density
					Newtons SANS 883	Kilograms SANS 640 *	Kg/M ³	Kg/M ³
Duralite/VP4	White	L	MB	70	61 - 85	6.0 - 8.6	8.0 - 11.0	10
VP12	White	L	MB	100	86 - 110	8.6 - 11.0	10.0 - 13.0	12
VP16/VP20	Light Grey	L	MB	100	86 - 110	8.6 - 11.0	14.0 - 17.0	16
VP25	Pale Blue	A	MB	100	86 - 110	8.6 - 11.0	17.0 - 20.0	19
VP30	Light Blue	A	MB	130	115 - 150	11.8 - 15.3	17.0 - 20.0	19
Superflex	White	S	MB	100	86 - 110	8.6 - 11.0	21.0 - 23.0	22
SuperFlexUltra	White	S	MB	100	86 - 110	8.6 - 11.0	21.0 - 23.0	22

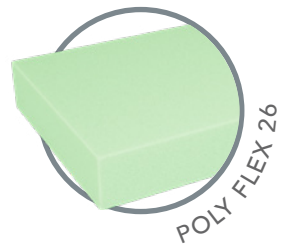
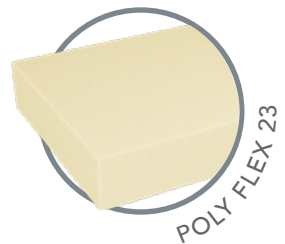
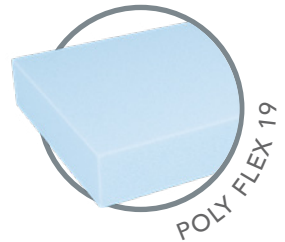
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Compression	Elongation	Tensile	Recommended Application
% Max	% Min	KPa min	
10	150	60	Economy Range - Economy Mattress; Boarder Lamination & Quilting.
10	150	60	Economy Range - Frame Padding
10	150	60	Economy to Meduim Range - Peeling; Mattress Toppers; Mattresses; Backrests
10	150	70	Medium Range - Scatter Cushions; Backrests; Pillows; Upholstrey Backrests
10	150	70	Medium Range - Quilitng, Mattress Toppers; Backrests; Frame Padding; Mattresses
10	150	70	Medium Range - Quilitng; Mattress Toppers; Backrests; Frame Padding; Mattresses
10	150	70	Medium Range - Quilting; Mattress Toppers



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STANDARD RANGE

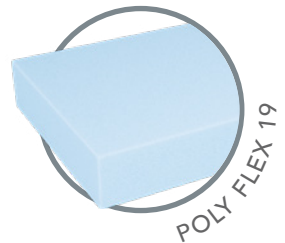
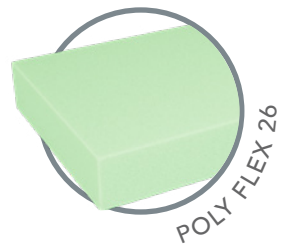
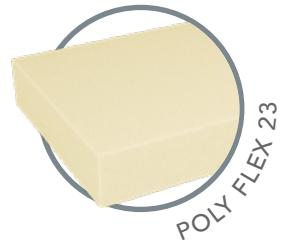
STANDARD FOAMS

New Foam Grade	Colour	Class	Type	Grade	In House Hardness range		Core Density	Nominal Density
					Newtons SANS 883	Kilograms SANS 640 *	Kg/M ³	Kg/M ³
VP55	Light Brown	A	MB	170	155 - 190	15,8 - 19,3	21,0 - 24,0	23
Vitaflex	Lilac	S	MB	130	115 - 150	11,8 - 15,3	24,0 - 27,0	26
VP60	Light Green	S	MB	130	115 - 150	11,8 - 15,3	24,0 - 27,0	26
VP65	Grey	S	MB	170	155 - 190	17,3 - 19,4	24,0 - 27,0	26
VP70 Olive	Olive	S	MB	130	115 - 150	11,8 - 15,3	27,0 - 31,0	30
VP70 Grey	Grey	S	MB	170	155 - 190	15,8 - 19,3	27,0 - 31,0	30
VP70 Grey	Grey	S	MB	170	155 - 190	15,8 - 19,3	27,0 - 31,0	30
HS40	White	V	MB	130	115 - 150	13,2 - 15,3	38,0 - 41,0	40
HS42 FR	Blue	V	MB	130	115 - 150	13,2 - 15,3	39,0 - 43,0	42

Compression	Elongation	Tensile	Recommended Application
% Max	% Min	KPa min	
10	150	70	Medium to Premium Firm - Mattress Topper; General Upholstery; Mattresses; Seating
10	150	70	Medium to Premium - Mattress Topper; General Upholstery; Mattresses; Seating
10	150	70	Medium to Premium - Mattress Topper; General Upholstery; Mattresses; Seating
10	150	70	Medium Range - Quilting; Mattress Toppers
10	150	70	Medium to Premium Firm - Mattress Topper; mattresses
10	150	70	Medium to Premium Firm - Mattress Topper; Mattresses
6	150	70	Premium Firm - Mattress Topper; Mattresses; Seat Cushions
6	150	70	Premium - Mattress Topper; Mattresses; Seat Cushions
6	150	70	Premium - Mattress Topper; Mattresses; Seat Cushions, Specialized flame retardent application



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