

# Technical Brochure

October 2009



# Explaining this brochure

## GRADE

This is a system that identifies density and hardness for polyether foams, and density and cell count for polyester foams.

All Joyce foam grades have density and hardness assigned by the Australian Standards.

Australian Standard AS2281-1993 is a foam classification system based on applications for light, normal or heavy-duty foams.

These classifications are a general guide only. They are used in testing foam grades to ensure they conform to the Australian Standard requirements.

## DENSITY

This refers to the weight of foam per cubic metre.

This is the most important measure when looking at foam quality.

The denser the foam, the more foam per cubic metre for comfort and support. The first number in the foam grade represents the density, eg. Ultimate Comfort HR32-130CM5 foam density is 32kg/m<sup>3</sup> which is a high-density foam.

## HARDNESS

This is a measure of how the foam feels, not a measure of quality. Lesser quality foams can lose up to 40% of their hardness in the first few months, eg. higher quality foam grades such as Ultimate Comfort HR32-110CM5, have a nominal hardness of 110 Newtons, when tested to Australian Standard AS2282.

## COMFORT/ INDENTATION FACTOR

This is the ratio of forces required to compress the foam to 65% and 25% of its original height.

Quality foam for seating applications will have an indentation or comfort factor of at least 2.0.

## RESILIENCE

This gives a measure of the bounce or spring of the foam grade. The higher the resilience percentage, the better the foam.

Resilience of 40% or higher indicates good recovery. All Ultimate Comfort foams have a resilience of 45% or higher.

## ENVIRONMENT

Joyce Foam Products has been certified under the GECA Standard / 28 2004 Furniture and Fittings, as environmentally preferable over other comparable products available on the market.

The Good Environmental Choice label is only awarded to products which have the highest level of environmental preference, quality and fitness for purpose and which represent the leading environmentally preferable options.

The Joyce Foam Products range of certified products have undergone rigorous and thorough assessment by GECA and found that throughout their life-cycles, each product complied with every element of the GECA standard. (Refer to - [www.geca.org.au](http://www.geca.org.au))



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Grade	Colour	AS2281-1993 Classification	Nominal Density kg/m <sup>3</sup>	Hardness IFD 40%N	Comfort / Indent Factor	Resilience Min. %	Typical Uses
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**Living Comfort - Light Duty Foam Range**

L16-110	White	-	16	110 ± 15	1.75	40	Quilting, general purpose
L19-130	Peach	-	19	130 ± 20	1.75	40	Overlays, quilting
L24-160	White / Blue	-	24	160 ± 20	1.75	40	Upholstery applications, overlays
L27-180	Pale Green	-	27	180 ± 20	1.75	40	Automotive upholstery
L27-210	White	-	27	210 ± 20	1.75	40	Automotive uses, packaging, support



**Active Comfort - Normal Duty Foam Range**

Active Comfort foam is a general purpose range of foams designed to stand up to today's active lifestyle. Active Comfort foams come with a five year warranty.



N15-60	White	N	15	60 ± 10	1.75	40	Soft cushions, seat backs
N17-80	Blue	N	17	80 ± 10	1.75	40	Soft overlays, quilting, pillows
N19-40	White	N	19	40 ± 10	1.75	40	Soft overlays, quilting, pillows, backs
N20-100	White	N	20	100 ± 15	1.75	40	Quilting, back cushioning
N23-130	Pale grey	N	23	130 ± 20	1.75	40	General purpose cushioning, overlays
N24-115	Blue	N	24	115 ± 15	1.75	40	General purpose seat cushion
N27-160	Yellow	N	27	160 ± 20	1.75	40	Seating, automotive uses, bedding, mattress overlays
N31-190	Green	N	31	190 ± 20	1.75	35	High load bearing, thin seating, arm-rests
N31-320	Orange	N	31	320 ± 35	1.80	30	Special purpose high load bearing applications



**Premium Comfort - Heavy Duty Foam Range**

Premium Comfort foam will retain its bounce and appearance for years. Premium Comfort foams come with a ten year warranty.



N30-130	Grey	N	30	130 ± 20	1.75	40	Cushioning, seat cushions, mattresses
H25-60	White	H	25	60 ± 10	1.75	40	Pillows, heavy duty super soft furniture, quilting
H28-80	Yellow	H	28	80 ± 10	1.75	40	Pillows, upholstery, overlays
H35-100	White	H	35	100 ± 15	1.75	40	Seat cushions
H35-130	Pale Blue/Yellow	H	35	130 ± 20	1.75	40	Cushioning, seat cushions, mattresses
H35-200	Blue	H	35	200 ± 20	1.80	40	Seating, transport seating
H42-500	Mauve	H	42	500 ± 60	1.80	20	High load bearing, automotive uses, alternate for reconstituted foam



**Ultimate Comfort - High Resilience Foam Range**

Ultimate Comfort foam has been designed to give a soft initial feel, with deep down support. Ultimate Comfort foam grades come with a fifteen year warranty.



HR24-40CM2	Straw Beige	-	24	40 ± 10	2.2	55	Overlays, head rests, soft backs
HR28-60CM2	Coffee	-	28	60 ± 10	2.2	55	Overlays, head rests, soft backs
HR32-90CM5	Olive	-	32	90 ± 10	2.2	50	Overlays, head rests, soft backs
HR32-110CM5	Pink	-	32	110 ± 15	2.2	50	Domestic, seat cushioning
HR32-130CM5	Grey	-	32	130 ± 20	2.2	50	Domestic, seat cushioning
HR35-200CM5	Salmon	-	35	200 ± 30	2.2	45	Firm seating

Ultimate Comfort Commercial is designed for commercial applications.

Ultimate Comfort Commercial comes with a five year warranty.

HR36-140CM5	Light yellow	-	36	140 ± 20	2.4	40	Commercial cushioning
HR40-200CM5	Orange	-	40	200 ± 30	2.2	40	Commercial seating, office furniture, transport seating
HR50-320CM5	Dark grey	-	50	320 ± 40	2.2	40	Ultra-firm cushioning applications in commercial & public transport seating



**Indulgence Comfort - Low Resilience Foam Range**

Indulgence Comfort foam is a high density, slow recovery foam. Soft to touch with slow shape recovery. Indulgence Comfort comes with a fifteen year warranty.



LR40-50	White	-	40	50 ± 10	1.85	12	Seat cushion overlay
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**Indulgence Plus - Revolutionary slow recovery viscoelastic foam**

Indulgence Plus comes with a fifteen year warranty.



VR50-80	White	-	50	80 ± 15	2.00	8	Seat cushion overlay, bedding overlay
VR52-50	White	-	52	50 ± 15	2.50	3	Seat cushion overlay, bedding overlay
VR60-60	White	-	60	60 ± 15	2.00	3	Seat cushion overlay, bedding overlay
VR60-80	Beige	-	60	80 ± 15	2.00	3	Seat cushion overlay, bedding overlay
VR85-70	Yellow	-	85	70 ± 15	2.00	4	Seat cushion overlay, bedding overlay



**Regal Comfort - High Resilience Foam Range**

Regal Comfort foam has all the features of latex with all the benefits of foam. Regal Comfort comes with a fifteen year warranty.



Regal Comfort Commercial is designed for commercial applications.

Regal Comfort Commercial comes with a five year warranty.

HR50-120CM5	White	-	50	120 ± 15	2.6	60	Latex feel cushioning and bedding
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## SPECIALTY FOAMS

Grade	Colour	Density kg/m <sup>3</sup>	Hardness IFD 40%N	Indentation Factor	Resilience Min. %	Typical Uses
SS18-100	Yellow / Blue / Pink	18	100 ± 15	1.75	40	Sponge for industrial, domestic & automotive applications
U29-400	Charcoal	29	400 ± 50	1.85	20	Carpet underlay, high load bearing upholstery & packaging applications

### COMBUSTION MODIFIED FOAM RANGE

N23-115CM	White	23	115 ± 15	1.75	40	Automotive applications
N23-115CM2	Beige / Charcoal	23	115 ± 15	1.75	40	Soft cushioning, thin section overlays
N28-180CM	Charcoal	28	180 ± 20	1.75	40	Firm cushioning, transport seating, acoustic applications
N32-180CM2	Charcoal	32	180 ± 20	1.75	40	Firm cushioning
H35-130CM2	Pale Blue	35	130 ± 20	1.85	50	Heavy duty seating applications, mattresses

### FLAME LAMINATING FOAM RANGE

N27-140FL	Grey / White	27	140 ± 20	1.75	30	Textile lamination & automotive applications
N28-130FL	Charcoal / White	28	130 ± 20	1.75	40	Textile lamination & automotive applications
N32-170CMFL	Charcoal	32	170 ± 20	1.75	30	Textile lamination & automotive applications
N38-220FL	Grey	38	210 ± 15	1.75	20	Textile lamination & automotive applications
S24/70CM	Charcoal/Grey/White	24	140 min	1.70	-	Textile lamination & automotive applications
S40/70CM	Grey	40	170 min	1.70	-	Textile lamination & automotive applications

## POLYESTER-URETHANE FOAM RANGE – Conventional

Grade	Colour	Density kg/m <sup>3</sup>	Hardness IFD 40%N	Indentation Factor	Pore Count Cells / 25mm	Typical Uses
S21/70	White / Grey	21	140 min	1.70	70 ± 10	General purpose, textile laminating
S26/90	White	26	150 min	1.70	90 ± 10	Packaging interlining, shoulder pads, flame lamination
S30/20	Charcoal	30	170 min	1.70	20 ± 8	General purpose industrial applications, vibration dampener
S30/30	Charcoal	30	170 min	1.70	30 ± 5	General purpose industrial applications, vibration dampener
S30/45	Charcoal / Blue / Green / Red	30	170 min	1.70	45 ± 10	General purpose industrial applications, vibration dampener
S30/60	Charcoal/Grey/Yellow/Green/Blue	30	170 min	1.70	60 ± 10	General purpose, die cutting, weather strips
S30/80	White / Charcoal	30	170 min	1.70	80 ± 10	General purpose gasketing
S30/90	White / Charcoal	30	170 min	1.70	90 ± 10	General purpose gasketing
S35/75	Grey	35	170 min	1.70	75 ± 10	Industrial washers & gaskets, protective packaging

### POLYESTER-URETHANE FOAM RANGE – Combustion Modified

S28/70CM	Charcoal	28	140 min	1.80	70 ± 10	Acoustical applications, flame lamination
S32/70CM	Charcoal	32	140 min	1.80	70 ± 10	Acoustical applications, flame lamination

### MERACELL RETICULATED POLYESTER FOAM RANGE

S28/20R	Charcoal	28	-	-	20 ± 8	Air and liquid filtration, speaker grilles, surge mitigation and applications requiring a uniform open cell structure
S28/30R	Charcoal	28	-	-	30 ± 5	
S28/45R	Charcoal/ Blue / Green/ Red	28	-	-	45 ± 10	Resistance to petroleum products
S28/60R	Charcoal/Grey/Yellow/Green/Blue	28	-	-	60 ± 10	Resistance to petroleum products
S28/80R	White / Charcoal	28	-	-	80 ± 10	Resistance to petroleum products
S28/90R	White / Charcoal	28	-	-	90 ± 10	Resistance to petroleum products

### MERACELL RETICULATED POLYETHER FOAM RANGE

N27/30R	White	27	-	-	30 ± 7	Filtration with improved water resistance
N27/60R	Pale Yellow	27	-	-	60 ± 15	Filtration with improved water resistance
N31/320R	White	31	-	-	35 ± 7	Air & water filtration, outdoor furniture cushioning

### POLYSHOT

H100/75	White	85	-	-	75 ± 10	Pipe cleaner, high load bearing applications
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Joyce Foam Products manufacture a large range of foam grades for all industrial applications. Contact your nearest Joyce Foam Products office for further information and advice. Specifications and properties are presented in good faith.

Joyce Foam Products is unable to accept responsibility for performance in actual applications and reserves the right to alter any data without notification.

Not all types and colours are available in all states, for variations contact your nearest Joyce office.