

DUNLOP FOAMS

**AUSTRALIAN NATIONAL PRODUCT RANGE
TECHNICAL SPECIFICATIONS**

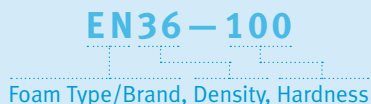
Dunlop Foams is Australia's leading manufacturer and distributor of foams for domestic and commercial furniture, bedding, aircraft and transport seating, packaging, health care, acoustics and specialty industrial applications. *This brochure is designed to provide essential performance specifications for all nationally available products. Some additional foam grades and/or colours may be available at your local Dunlop Foams branch.* Dunlop Foams has an unrivalled record of product development and innovation, so if you have a foam requirement that is not met by any of the products listed here, our representation and technical support is available in all States and just a phone call away.

TERMINOLOGY & DEFINITIONS

The terms listed here are those most commonly used in foam testing to indicate quality and durability.

All flexible polyurethane foams manufactured by Dunlop are tested in accordance with Australian Standard AS2282.

GRADE Dunlop grades are identified by an industry coding system – eg:

EN36 – 100

 Foam Type/Brand, Density, Hardness

FOAM TYPE/BRAND Typical examples of Dunlop foam type or brand identification are:

MA—*Marathon*[®] is a branded range of foams with densities ranging from 24 to 29 kg/m³

EN—*Enduro*[®] is a superior range of high density, high resilience branded foams with a lifetime guarantee in domestic furniture and a 10 year guarantee in commercial furniture and bedding

VF—*Viscoflex*[®] is Dunlop's new range of low resilience (LR) or slow recovery foams which contour to body shape to reduce pressure and maximise comfort

DENSITY This refers to the weight of the foam in kilograms per cubic metre.

Density is the best indicator of foam quality and durability. Foams with higher density have more foam per cubic metre for comfort and support and superior resistance to loss of hardness or height/thickness compared to lower density foams. They are also more expensive due to their higher material content.

An example of a quality high-density foam is Dunlop Enduro[®] EN50-250, with a nominal density of 50 kilograms per cubic metre.

HARDNESS This is a measure of the 'feel' of a foam and is closely related to perceived consumer preference.

To establish the hardness, a standard sized piece of foam is compressed to 40% and the force (expressed in Newtons) required to achieve that compression is measured.

Again, as an example, Dunlop Enduro[®] EN50-250 tested to AS2282 has a nominal hardness of 250N.

INDENTATION FACTOR Also referred to as the 'Sag Factor' or 'Comfort Factor', this is the ratio of forces required to compress the foam to 65% and 25% of its original height.

A high ratio means a wider difference between the two readings and therefore indicates initial softness and deep down support/firmness.

A quality foam should be expected to have an indentation factor of at least 2.0. Dunlop Opulence[®] OP50-120, for example, has an indentation factor of 2.10.

RESILIENCE This is a measure of a foam's 'springiness' or 'bounce', and an indication of its potential for shape retention.

Resilience is measured by dropping a steel ball onto a standard sized piece of foam and measuring the distance that the ball bounces back. The height of the drop divided by the height of the bounce equals the foam's resilience percentage. It is widely agreed that foams with higher resilience are best suited for seating.

Dunlop Enduro[®] EN36-100, for example, has a resilience factor of 55%.

ULTRA-FRESH

DUNLOP FOAMS AND ULTRA-FRESH:

A FIRST STEP TO A HEALTHIER HOME ENVIRONMENT.

Dunlop foams for commercial and domestic furniture, bedding and healthcare applications are produced with the proven antimicrobial, Ultra-Fresh.

Laboratory tests show that foams, fibres and fabrics incorporating Ultra-Fresh provide effective control of the growth of micro-organisms, including bacteria, mould, mildew and fungi, promoting a lasting hygienic freshness.

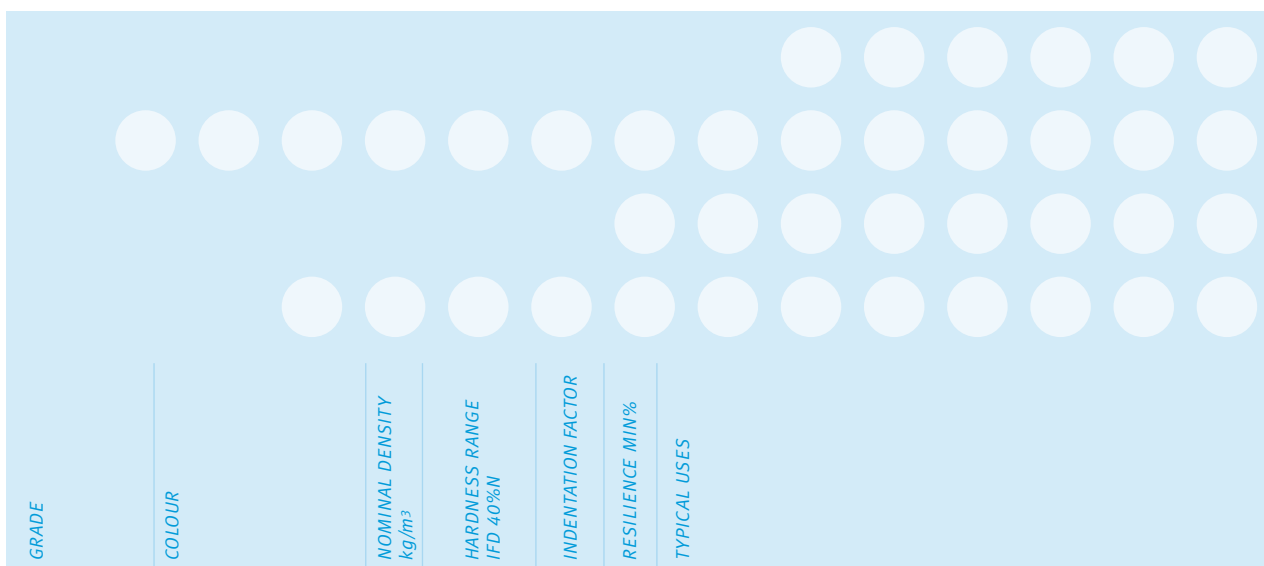
The lasting clean state of Dunlop foams creates an environment with a greater benefit than just being microbe free.

Independent research confirms that by inhibiting bacteria and mould, foam products with Ultra-Fresh are dust mite-resistant because they reduce the availability of the food source for dust mites.

DUNLOP FOAMS INCORPORATING ULTRA-FRESH:

- Will effectively inhibit the proliferation of dust mite populations and will remain an environment low in dust mite allergens
- Inhibit the growth of bacteria, mould and mildew
- Have lasting hygienic freshness
- Resist deterioration, discolouration and degradation caused by fungi and bacteria
- Provide effective odour protection

ALL DUNLOP FOAMS ARE MANUFACTURED WITHOUT CFC'S.



GRADE	COLOUR	NOMINAL DENSITY kg/m ³	HARDNESS RANGE IFD 40%N	INDENTATION FACTOR	RESILIENCE MIN%	TYPICAL USES
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UTILITY

The basic and most affordable foam range for light duty applications.

AA15-60	White	15	50-65	1.85	-	Quilting, headrest, pillows
AA16-110	Pale Yellow / White	16	100-120	1.52	40	Quilting and budget mattress cores
AA17-80	Light Blue	17	70-90	1.75	45	Overlay, quilting, headrest, pillow
AA19-130	Peach	19	115-145	1.75	40	Utility grade in low cost cushioning and bedding
AA20-100	White / Khaki	20	90-115	1.75	45	Spring overlay, fabric backing, back-rest
AA23-130	Light Grey / White	23	115-145	1.75	45	Seat and back cushions, mattress, armrest overlay

MARATHON



The general purpose foam range suitable for a wide range of applications requiring a higher performance specification than Utility provides.

MA24-120	Mauve	24	105-135	1.76	45	Seat cushion, armrest, overlay and bedding
MA25-60	Peach / White	25	50-65	1.88	45	Cushion overlay, headrest, pillow, mattress topper
MA26-160	Yellow	26	145-175	1.74	40	Seat cushions, bed settees, arm overlay
MA28-80	Deep Yellow	28	70-90	1.88	50	Back cushion, overlay, mattress topper
MA29-200	Pale Green	29	185-220	1.80	45	Seating, bedding, packaging

HYPERSOFT



A range of extremely soft cushioning foams that maintain their loft when used for quilting, seat cushion overlays and backs.

HS18-35	White	18	30-40	1.92	40	Quilting, pillows, cushion overlays, back cushion
HS24-40	White	24	30-50	2.00	50	Quilting, over-wrap, pillow, acoustic filling

STAMINA



A high quality foam range providing lasting comfort and support and backed by a 10 year guarantee for new domestic furniture.

ST29-60	Yellow	29	55-75	2.32	55	Pillow, overlay, back cushion and mattress topper
ST30-110	Pink	30	100-125	1.75	55	Seat and back cushion, mattress topper, arm overlay
ST30-130	Blue	30	115-145	1.76	55	Seat and back cushion, mattress, arm overlay, settee
ST35-200	Grey	35	185-220	1.80	50	Sound absorption panels, cushioning

ENDURO



A premium quality foam providing outstanding comfort and support that keeps bouncing back. Guaranteed for the lifetime of domestic furniture and for 10 years in commercial furniture and bedding.

EN36-80	Light Green	36	70-95	2.38	55	Cushions, back-rest and overlay
EN36-100	Deep Green	36	95-120	2.44	55	Seat and back cushion, mattress topper pad
EN36-130	Light Gold	36	120-150	2.39	55	Seat cushioning, mattress core, bed settee
EN38-200	Deep Gold	38	185-225	2.30	50	Firm seat cushion, transport seating, office furniture
EN50-250	Salmon	50	230-270	2.40	55	Contract and transport seat cushioning

OPULENCE



Combines plush feel and underlying support to provide exceptional comfort and extreme durability. Guaranteed for the lifetime of domestic furniture and for 10 years in commercial furniture and bedding.

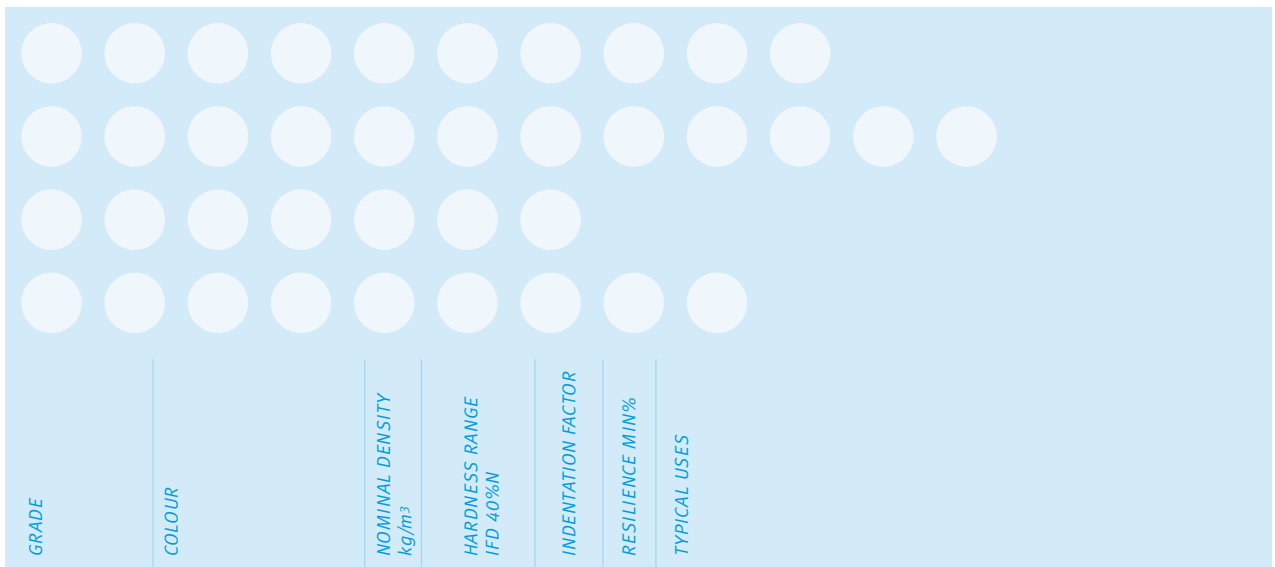
OP35-110	White	35	95-125	2.08	40	Seat and back cushioning, mattress topper pad and full foam mattress
OP50-120	White	50	105-135	2.10	40	Full foam mattress, mattress topper, seat cushioning

VISCOFLEX



A superior slow recovery visco-elastic cushioning scientifically designed to provide low pressure and supreme comfort. Contours precisely to body to reduce pressure points.

VF52-40	White	52	35-55	2.67	5	Pillow, comfort layer in bedding, overlays, cushions
VF52-60	Yellow	52	55-75	2.11	10	Seating, comfort layer in bedding, overlays, cushions



SPECIALTY

GRADE	COLOUR	NOMINAL DENSITY kg/m ³	HARDNESS RANGE IFD 40%N	INDENTATION FACTOR	RESILIENCE MIN%	TYPICAL USES
SS18-100	Yellow	18	90-115	1.70	40	Bath sponge, cleaning pad
AA21-300	Charcoal	21	250-350	1.89	20	Budget grade packaging , noise absorption panels
AS25-80	Pink	25	70-90	1.73	40	Antistatic packaging of instruments and parts
FL27-170	White / Grey	27	155-195	1.93	40	Textile, footwear, automotive and other laminates
AA29-400	Charcoal	29	350-450	1.84	30	Instrument and glassware packaging, noise absorption
AA31-320	White	31	300-350	2.00	35	Packaging, shoe insole, waterbed frame
PAKFOAM	White	35	830-950	-	15	Packaging, safety cushioning
LR38-40	White	38	40-60	2.29	10	Pillows, cushion and armrest component, mattress overlay
LR48-90	Yellow	48	80-120	1.94	10	Seating, bedding, therapeutic cushioning
NL45-130	Steel Grey	45	115-145	2.45	55	Contract and transport seating, bedding
NL65-200	Blue	65	180-220	2.41	55	Institutional, public hall and transport seating
NL SHEET	Charcoal	85	160-210	3.45	12	Interliner in transport and public building seating and bedding
HG39-115	Orange	39	100-130	1.76	45	Comfort layer, full foam mattress
HG39-140	Aqua	39	125-155	1.76	45	Comfort layer, full foam mattress

REBOND

C-70	Blue	70	200-300	-	45	Mats, packaging, cushion base and reinforcement
C-105	Yellow	105	500-750	-	45	Mats, packaging, cushion base and reinforcement
C-120	Green	120	800-1300	-	40	Mats, packaging, cushion base and reinforcement
C-150	Gold	150	1200-1650	-	35	Heavy duty, very firm mats, underlay and reinforcement foam

GRADE	COLOUR	NOMINAL DENSITY kg/m ³	HARDNESS RANGE IFD 40%N	INDENTATION FACTOR	CELL COUNT PORES /25mm	TYPICAL USES
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ESTER

ES23-170	Grey / White/ Charcoal	23	145-185	1.80	55±5	Textile lamination, industrial and padding
ES24-170FR	Charcoal	24	145-185	1.80	55±5	Textile lamination, industrial and padding
ES26-200	Grey / White	26	175-215	1.77	55±5	Textile lamination, industrial and padding
ES28-170FR	Charcoal	28	145-185	1.80	55±5	Lamination, industrial, sound absorption and automotive
ES30-220	Charcoal	30	200-240	1.89	55±5	Industrial, automotive and utility application

For more information call our office in your State
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DUNLOP FOAMS

Dunlop Foams is a PACIFIC BRANDS company.

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