# Quadra 3mm Profile Worktops



#### With Duropal you're covered in all directions...

#### Quadra Worktops

You can rest assured we have tested Duropal worktops for all possible kinds of wear, and testing is an ongoing process. Duropal applies the most rigorous tests there are for HPL surfaces. Every worktop leaving the Duropal factory is subject to normal testing and rigorous final inspection. The following 12 examples show you the advantages which Duropal can offer in everyday kitchen conditions.



Resistant to coffee stains. Hot coffee or tea simply wipe off, even after several hours.

Resistant to ultraviolet light.

tion, neon light... The colour

of Duropal worktops will not

Daylight, ultraviolet radia-

fade.

Resistant to red wine stains. Red wine, fortified wine, spirits or red cabbage stains are easy to wipe off, even the next day.

Resistant to scratching.

The tough melamine resin surface provides the decor with the best possible protection against scratching. Resistant to ink stains. Ink or shoe polish can be wiped away after many hours without leaving any stains.

Resistant to digarette burns.

No cracks, blisters or burns occur if a cigarette is left burning on the surface – the marks on the surface can simply be wiped away. Resistant to high impact.

High impact resistant Duropal worktops will withstand object such as tins of food falling from cupboards onto the surface.

Resistant to hot pans.

Duropal is very resistant to high temperatures (e.g. vegetables in boiling water), but for flying pans and casseroles straight from the oven, use a protective pad. Resistant to chemicals.

Household chemicals or detergents will not affect Duropal worktops.

Resistant to fruit juice.

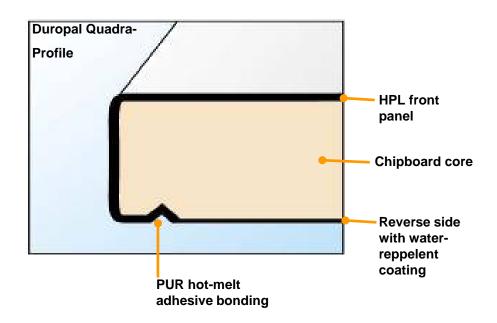
Otrus fruit, milk and vinegar stains are easy to remove from the surface. Resistant to wear.

The extremely hard-wearing properties of Duropal worktops ensure that utensils will not damage the surface.

Resistant to steam.

Steam from domestic appliances or boiling water have no effect.





The high resistance against mechanical, thermal and chemical impacts make Duropal worktops ideally suitable elements for worktops, tables and counters in kitchens, restaurants, banks, canteens, medical practices and laboratories.

All Duropal worktops are faced with fully cured High Pressure Laminate (HPL). Fully cured postforming grade HPL ensures a totally sealed surface which is extremely stain, scratch and impact resistant.

The overlay and décor papers are melamine impregnated – one of the hardest materials available for this use.

The core is phenolic impregnated facilitating the postforming process. Impact resistance, durability and scratch resistance all meet, and in most cases, exceed BS/EN 438 requirements.

The glue line is especially formulated by Duropal for maximum bond strength, heat and moisture resistance. The high-quality PUR hot-melt adhesive bonding between worktop, HPL décor and overlay (Quadra and Classic profiles) is currently unique on the market and has a two-fold purpose:

- Excellent sealing properties between worktop, HPL décor and overlay.
- Profiled edge to protect floor cupboards against penetrating water as above dishwashers and laundry appliances.

A further advantage of the Duropal worktop is the water and vapor barrier properties of the lamination on the reverse side, for which Duropal uses a special overlay. The result is a coating that is both water and vapor resistant. The Duropal overlay is often only "visually" comparable with that of our competitors.

The back edge is sealed and protected with a white melamine strip .



technical data	test reference	test results
		Duropal Quadra Benchtops

HPL surface propperties - DIN EN 438			
resistance to surface abrasion	DIN EN 438-2 (10) - HGP	≥350 revs [(IP+FP)/2]	
- printed designs (conventional)			≥375-500 revs
- plain designs			≥500-700 revs
resistance to surface scratches	DIN EN 438-2 (25) - HGP	level 3	
- deep textures			level 4
- medium textues			level 3
impact resistance	DIN EN 438-2 (20) - HGP	<u>&gt;</u> 20 N	≥20 N
resistance to boiling water	DIN EN 438-2 (12) - HGP		
- glossy surfaces	appearance	level 3	min. level 3
- other surfaces		level 4	depending on surface texture level 4-5
resistance to dry heat (180°C)	DIN EN 438-2 (16) - HGP		
- glossy surfaces	appearance	level 3	min. level 3
- other surfaces		level 4	depending on surface texture level 4-5
light fastness (xenon arc lamp)	DIN EN 438-2 (27) - HGP		
	grey-scale	4-5	<u>≥</u> 4
stain resistance	DIN EN 438-2 (26) - HGP		
- substances group 1&2	appearance	level 5	level 5
- substances group 3		level 4	min. level 4

38mm P3 & Hydrofuge particle board core material - DIN EN 312			
bending resistance	EN 310	9 N/mm²	
transverse tensil strength	EN 319	0.3 N/mm²	
bending coefficient of elasticity	EN 310	1,550 N/mm²	
thickness swelling	EN 317	12%	
internal bond (after boiling test)	EN 1087-1	0.06 N/mm²	
coefficient of shrinkage & swelling	DIN EN 312	0.025% per 1% change in humidity of the panel	
P3 is made in accordance with DIN EN 412. All values are obtained from our production and are for "guidance only"			

formaldehyde emmission E1	EN120	< 8 mg HCHO / 100g board 2)	< 6.5 mg HCHO / 100g board 1)
	HO A 5000 / IAO 4400	0.5 110110 ///	0.5 110110 ///
formaldehyde emmission EPFS E0	JIS A 5908 / JAS 1460	< 0.5 mg HCHO / ltr	< 0.5 mg HCHO / ltr

05.11.2010 VL EO - according to Japanese Standard "desiccator" test method

contrary to the European "climate room" test method, where formaldehyde emission in the air is tested, JIS measures in a closed glass container partly filled with water, how much formaldehyde gets into the water.

Different countries / different product descriptions; formaldehyde emission based on JIS 5908 (test JAS 1460):

Japan	F****E0	$\leq$ 0.3mg / ltr	
	F*** E0	≤ 0.5mg / ltr	
Australia	E0	≤ 0.5mg / ltr	
USA	CARB II	< 0.5mg / ltr	
Europe	CARB II	< 0.5mg / ltr	
	EPFS	< 0.5mg / ltr	(see also IKEA grade 1/2 E1)