

# RESOPAL® HPL

## SURFACE GLOSS AND SURFACE BRIGHTNESS

The following product data sheet provides information regarding the surface gloss and the surface brightness of RESOPAL HPL.

### 1. Requirements according to DIN Technical Report 147

The requirements described below are taken from DIN Technical Report 147 (Requirements and Tests of Office Furniture – Guideline for the Security Requirements on Work Tables and Storage Furniture in Germany), dated June 2006. "(...) Glare in the visual field due to the reflection from glossy surfaces and troublesome contrasts caused by surfaces that are either too bright or too dark must be excluded. (...)”

Surface Gloss (Reflectometer Value R' (60°))

Reflectometer Value R' (60°) < 20 gloss units

The surface gloss is determined according to DIN EN ISO 2813

Surface Brightness (Reflectivity)

Reflectivity 0.15 – 0.75

The surface gloss is determined according to DIN Technical Report 147

### 2. Surface or Specular Gloss (Reflectometer Value R' (60°)) according to DIN EN ISO 2813

Gloss is not a purely physical value; it is also subject to certain physiological and psychological conditions. Accordingly, gloss is not directly measurable. Nevertheless, the component part which the surface contributes to the gloss effect because of its reflective properties can be conveniently measured with a reflectometer. According to DIN EN ISO 2813, the reflectometer value can be used under limited conditions as a measurement of the ability to produce specular gloss.

RESOPAL® Texture	Texture Name	Surface (Specular) Gloss Reflectometer Value R' (60°)
20	Silky Matt	12,0 ± 4
60	Matt	10,0 ± 3
90	Slightly Glossy	14,0 ± 5
EM	Smooth Matt	3,0 ± 1
FW	Fresh Wood	5,0 ± 2
WH	Wooden Heart	5,0 ± 2
WS	Wooden Spirit	3,5 ± 2
EW	Elegant Wood	3,5 ± 2
KS	Keramos	8,0 ± 3
RM	Real Material	4,0 ± 2
AJ	Artists Joy	3,0 ± 1
HW	High Wear	110,0 ± 10
TS	Traceless Smooth	3,5 ± 1
TL	Traceless	3,0 ± 1
TP	Traceless Premium	2,5 ± 1

According to DIN Technical Report 147, office furniture surfaces may not be glossy in the visual fields surrounding them. Consequently, only surfaces may be used where the reflectometer value R' at 60° light incidence does not exceed 20 gloss units. The high-gloss surface HW is therefore not suitable for use on the surfaces of office furniture.

### 3. Oberflächenhelligkeit (Reflexionsgrad)

Surface brightness is dependent upon the shade and depth of the colour in question. The reflectivity level is determined according to DIN Technical Report 147 in the case of plain-coloured decors by finding the tristimulus value Y with a spectral photometer. In the case of patterned decors, the reflectivity is determined by comparing the decor with colour samples from standardised reflectance tables. The values thus determined for surface brightness or respectively, the reflectance level, represent more subjective values.

#### RESOPAL® Collection

Decor Number	Decor Name	Reflectance Factor Y
<b>RESOPAL® COLOURS</b>		
104	Traffic White	82
105	Pearl White	80
112	Ivory	86
120	Transition	67
135	Rain	71
140	Dawn	68
147	Affinity	57
150	Tin	32
160	Silver Grey	54
168	Azul	54
179	Arctic White	83
300	Infinity	14
310	Brick	13
311	Marsala	10
312	Burgundy	9
314	Paprika	19
318	Rosy	64
325	Lychee	63
335	Orange	29
340	Zinnia	23
355	Candy	23
413	Citrus	79
424	Ceylon	48
425	Primrose	38
426	Sunflower	26
439	Sunny	81
441	Corn	70
446	Gold	69
455	Lemon Peel	68
465	Ochre	22
520	Beaver	9
531	Silica	40

Decor Number	Decor Name	Reflectance Factor Y
547	Chocolate	8
565	Antilope	37
600	Button	32
602	Petrol	54
603	Lime	70
617	Bergamot	62
625	May Green	33
626	Spring	59
630	Jardin	15
631	Absinth	74
634	Delicious	60
639	Carambola	36
640	Kiwi	15
665	Moss	20
667	Mint	69
670	Jade	59
688	Avocado	10
724	Aqua	76
741	Lilac	30
743	Pacific	28
744	Azur	39
760	Cobalt	10
763	Ara	58
767	Majestic	8
777	Cornflower	7
781	Soiree	12
792	Plum	11
798	Aubergine	7
901	Black	6
1503	Putty	62
1511	Mandarin Red	16
1570	Crystal White	75
6001	Ultra White	80

Decor Number	Decor Name	Reflectance Factor Y
9402	Dazzling White	66
9417	Snow White	85
9429	Parrot	39
9440	Navy	8
9450	Teal	11
9497	Ultramarine	12
9501	Coral	37
10542	Storm	14
10622	Ebony	10
1500N	Soft Grey	54
D 14	Port	9
D 319	Blue Ice	45
D 351	Tyrol Green	26
D 354	Designer White	82
D 362	Nile Green	46
D 378	Clear Teal	36
D 391	Cloud	64
D 403	White Sand	75
D 414	Shogun	29
D 416	Bluebonnet	20
D 419	Lagoon	24
D 421	Midori	10
D 431	Alabaster	81
D 432	Cashmere	69
D 435	Pongee	79
D 443	Tibetan Jade	15
D 451	Fiesta Reef	11
D 472	Bali Blue	32
D 473	Delft	15
D 475	Baltic Sea	19
D 478	Amazon	29
D 483	Yellow	68
D 73	Pewter	27
D 90	North Sea	23
D 91	Slate Grey	10
D 92	Dove Grey	38
D 96	Shadow	23
<b>RESOPAL® WOODS</b>		
3044	Essential Large B	47
4005	Chalet Oak	16
4006	Noce Savinelli	4
4007	Noce Vero	10
4008	Noce Savinelli Grigio	66
4012	Manarola Acacia	66

Decor Number	Decor Name	Reflectance Factor Y
4013	Manarola Acacia Brown	10
4018	Toronto Elm	30
4019	Michigan Elm	4
4022	Arctic Pine	66
4023	Essential Large A Quer	68
4046	Nordic Dunes	58
4047	Lively Cherry	48
4055	Essential Large A	50
4067	Tallinn Ash	40
4068	Night Ash	6
4069	Bergen Ash	58
4072	Essential Light Beech	53
4073	Essential Beech	39
4076	Essential Oak	44
4080	Sunday Oak	52
4081	Glen Oak	32
4082	Tundra Oak	66
4083	Honey Oak	24
4084	Cornwall Oak	6
4085	Black Oak	4
4103	Tauern Larch	80
4104	Visby Maple	74
4105	Plane Marked Maple	70
4109	Piave Cherry	16
4110	Wenge Nakuru	6
4116	Delicious Oak	20
4118	Novara Elm	6
4122	Citynight	4
4123	Cottage Pine	20
4128	Amarena Cherry	22
4129	Washy Elm	41
4134	Mississippi Pine	30
4136	Driftwood	35
4137	Frantic	32
4138	Masterpiece Sepia	14
4139	Masterpiece Bianco	42
4140	Night Wood	10
4144	White Wood	68
4145	Creme Wood	62
4146	Beige Wood	55
4147	Candy Wood	43
4148	Soil Wood	30
4159	Shabby White	58
4161	Mystic Pine	14

Decor Number	Decor Name	Reflectance Factor Y
4164	Country Oak	44
4165	Solano Oak	52
4166	Valley Oak	48
4167	Diego Oak	42
4168	Pablo Oak	12
4176	Sol Oak	22
4177	Capitol Pine	58
4181	Cerasum Mare	16
4182	Complexe Oak	4
4183	Sugar Beech	52
4209	Ottawa Maple	70
4228	Silver Oak	20
4232	Noce Lyon	24
4235	Magas Oak	20
4260	Noce Lugo	6
4265	Nutshell	4
4282	Delicate Oak	70
4289	Vintage Oak	10
4301	Platin Beech	68
4306	Global Beech	44
4319	Mountain Oak	72
4325	Eternal Cherry	48
4326	Morello Cherry	58
4332	Mono Deluxe	26
4335	Mountain Lodge	15
4339	Silver Pine	20
4344	Rustic Oak	26
4353	Fjord Birch	70
4356	Heart Apple	66
4360	Real Ash	70
4367	Sun Maple	66
4369	Ambient Maple	80
4370	Display Maple	76
4388	Concept Oak	4
4393	Coco Bolo	34
4397	Macassar	4
4399	Tropic Reed	16
4402	Gotland Cherry Quer	66
4408	Milano Qwear	10
4414	Finn Oak	30
4438	Core Maple	70
4447	Noce Romantica	16
4448	Unique Elm	70
4452	Noce Praline	12

Decor Number	Decor Name	Reflectance Factor Y
4461	Guadina Oak Quer	26
4463	Avian Cherry Qwear	10
4470	Soft Elm	28
4471	White Acacia	66
4475	Vintage Festival	13
4485	Dubai Ebony	16
4490	Zebrano Nightfall	6
5066	Essential Large C	49
<b>RESOPAL® DANCING LINES</b>		
2550	Dancing Lines Snow White	85
2551	Dancing Lines Snow White Red	85
2552	Dancing Lines Dawn	68
2553	Dancing Lines Shadow	23
2554	Dancing Lines Silver Grey	54
2555	Dancing Lines Pewter	27
2556	Dancing Lines Blue Ice	45
2557	Dancing Lines Ebony	10
2558	Dancing Lines Rosy	64
2559	Dancing Lines Port	9
<b>RESOPAL® STONES AND MATERIALS</b>		
2486	Luxor	34
2493	Remington Mine	16
3115	Linen	27
3207	Finery	66
3236	Eternal Iron	13
3377	Roccia Grigia	20
3417	Amarello Campanile	62
3447	Cloudy Cement	42
3480	Tideland	10
3488	Moon Rock	17
3505	Raja Black	6
3509	Kerala Tanned	6
3514	Aragon Stone	47
3523	Colorado Grey	20
3524	Colorado	4
3533	Ruby Limescale	15
3540	Granic Vein	35
3547	Scratch	17
3561	Essential Light Wall	64
3562	Essential Wall	55
3563	Monocrete	6
3570	Marmo Bianco	66
3572	Samsara	14
3576	Emperador	12

Decor Number	Decor Name	Reflectance Factor Y
3577	Marmo Nero	14
3580	Aragon Grey	34
4689	Chain Sand	52
4690	Chain Stone	34
4915	Blue Steel	6
4917	Sabulous Rock	46
4918	Corroda	19
4919	Corroda Copper	22
4939	Patina Rock	10
4943	Empire Slate	32
<b>RESOPAL® METALLICS AND METALS</b>		
2405	Powdered Nickel	66
2406	Light Copper	52
2407	Natural Gold	68
2408	Rich Bronze	70
2409	White Aluminium	52
2410	Grey Aluminium	20
3900	Alu	89
3903	Brushed Titanium	36
3905	Matt Alu	70
4602	Metallic Art Copper	62
4603	Metallic Art Gold	68
4604	Metallic Art Platinum	70

All information contained in this Product Data Sheet is based on the current state of technical knowledge but does not constitute any form of guarantee. No guarantee can be assumed for specific applications or usage.