

EXALITE 10®

Basic component: Polypropylene Mineral filled compound (C₃H₆)_n(C₂H₄)_m
 Standard colours: White, Grey 835 – RAL 7047 other colours available upon request
 Sheet length (minimum/maximum): 500/6000 mm
 Sheet width (minimum/maximum): Upon customer request / 1250mm
 Standard finish: Mat/Mat Ra = 3

EXA 10 AVAILABLE OPTIONS	CORE THICKNESS (mm)	SKINS THICKNESS (mm)	TOTAL THICKNESS (mm)	CORE GRAMM. (g/m ²)	TOTAL GRAMM. (g/m ²)	SKINS DENSITY Kg/dm ³	TOTAL DENSITY Kg/m ³
	10	0.4	10,8	950	1750	0,92	175
		0.6	11,2		2100	0,95	200
		0.8	11,6		2600	1,03	230
		1.0	12		2950	1,03	245

EXA 10 AVAILABLE OPTIONS	COMPRESSIVE STRENGTH (KPa) ISO 844	FLEXURAL STRENGTH AT YIELD (MPa)		DEFORMATION AT YIELD (mm)		FLEXURAL MODULUS*(MPa)	
		MD	TD	MD	TD	MD	TD
	EXA 10-04	1250	5,4	4,2	4,4	4,2	350
EXA 10-06	1250	9,5	7,2	4,5	5,8	570	350
EXA 10-08	1250	11,8	9,2	5,4	6,8	680	400
EXA 10-10	1250	12,2	9,2	5,1	7,2	700	370

Technical Features		Acceptance Criteria	
Length	ISO 15013	+ 3/- 3 mm **	
Width	ISO 15013	+ 2/- 2 mm **	
Total thickness	ISO 15013	+/- 0,3 mm	
Skins thickness	ISO 15013	+/- 0,05 mm	
Thickness Omogeneity		< 0,1 mm	
Grammage	ISO 845	+/- 5%	
Density	ISO 845	+/- 5%	
Diagonals difference L =1000	ISO 15013	< 3 mm	
Diagonals difference L =2000	ISO 15013	< 6 mm	
Diagonals difference L >2000	ISO 15013	< 10 mm	
Flexural Strength at Yield MD/TD	ISO 178	+/-0,4	
Deformation at Yield	ISO 178	+/-0,3	
Flexural Modulus	ISO 178*	+/-30	
Compressive Strength		+/- 50 KPa	
Dimensional stability (1h/90°C) MD	ISO15013	< 0,5 %	
Dimensional stability (1h/90°C) TD	ISO 15013	< 0,1 %	
Sheet Planarity (20°C)		< 10 mm	
Coefficient of inear expansion MD (25-90°C)		X < 100 µ/(°K*m) +/-20	
Coefficient of inear expansion TD (25-90°C)		X < 100 µ/(°K*m) +/-20	
Average Thermal Conductivity*** (20°C)		0.08 W/mK	
Surfaces' resistance to thermal shocks UNI 9429 (each cycle: 4 hours at +50°C, 4 hours at -20°C and 16 hours at ambient temperature).		15 cycles without showing superficial defects	
Surfaces' resistance to dry heating	UNI EN 12722	Resists up to 120°C without damage <u>within the testing parameters</u>	
Surfaces' resistance to humid heating	UNI EN 12721	Resists up to 100°C without damage <u>within the testing parameters</u>	
Hardness (pencils method)	UNI EN 10782	Hardness equals a F pencil	

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* Tested along criteria defined by Karton's internal Procedures.

** Karton's Standard Dimensional tolerances. These tolerances can be adjusted on customer's demand. Please notify in writing Karton's sales department should you have different requirements.

*** Unstandardized testing method, to be referred to 11.2mm thick Exalite.

Chemical features

Main component: Polypropylene mineral filled compound (PP).

Polypropylene guarantees waterproof properties and resistance to oil, fat, saline solutions, and also acidic and alkaline solutions at temperatures lower than 60°C. PP it is not resistant to substances with strong oxidizing effect.

Specifically Exalite® has been tested in conformity with UNI EN 12720 standard (16 hours) and it has been proven to be resistant to the following liquids/solvents without showing any visible change: Acetic acid, acetic, ammonia solution, citric acid, detergents, disinfectant, ethanol, ethyl-butyl acetate, olive oil, paraffin oil, sodium carbonate, sodium chloride, water and beer. The following liquids,/solvents, instead, either left visible marks, visible in many different trajectories of observation, or slight changes in the surface's shine: coffee, stamps ink, tea and wine.

Standard Additives

- AntiUV Masterbatch (base LDPE)
- Antistatic Masterbatch (base LDPE)
- Colour Masterbatch (base LDPE)
- Flame Retardant (base PP) → Please note: to be tested and certified on the basis of national regulations upon customer's request.

Corona treatment: Superficial tension = 46 Dynes/cm (average duration 6 months)

Customization → Flexographic on line print, 1 colour

Packaging and selling units

- Several packaging schemes are available upon customer request.

Suggested product use

Working temperature range is included between : -20°C < T°C < +60°C. Polypropylene can withstand peak temperatures included between -20°C < x < 120°C without damage. Whilst designing and converting finished articles please mind the above mentioned coefficient of linear expansion.

Regulatory Requirements

- Directive 94/62/CE and subsequent amendments
- Regulation 1907/2006/CE of 18th December 2006 (REACH).

Please note that this information regards the product as commercialized by Karton Spa and consequently any further treatment, handling, processing performed on this product by the Customer don't lie under Karton responsibility. We would like to inform you that the use of the product referenced in this document within an industrial or commercial site doesn't exclude responsibility for assessing its technological fitness in relation to the end destination use.