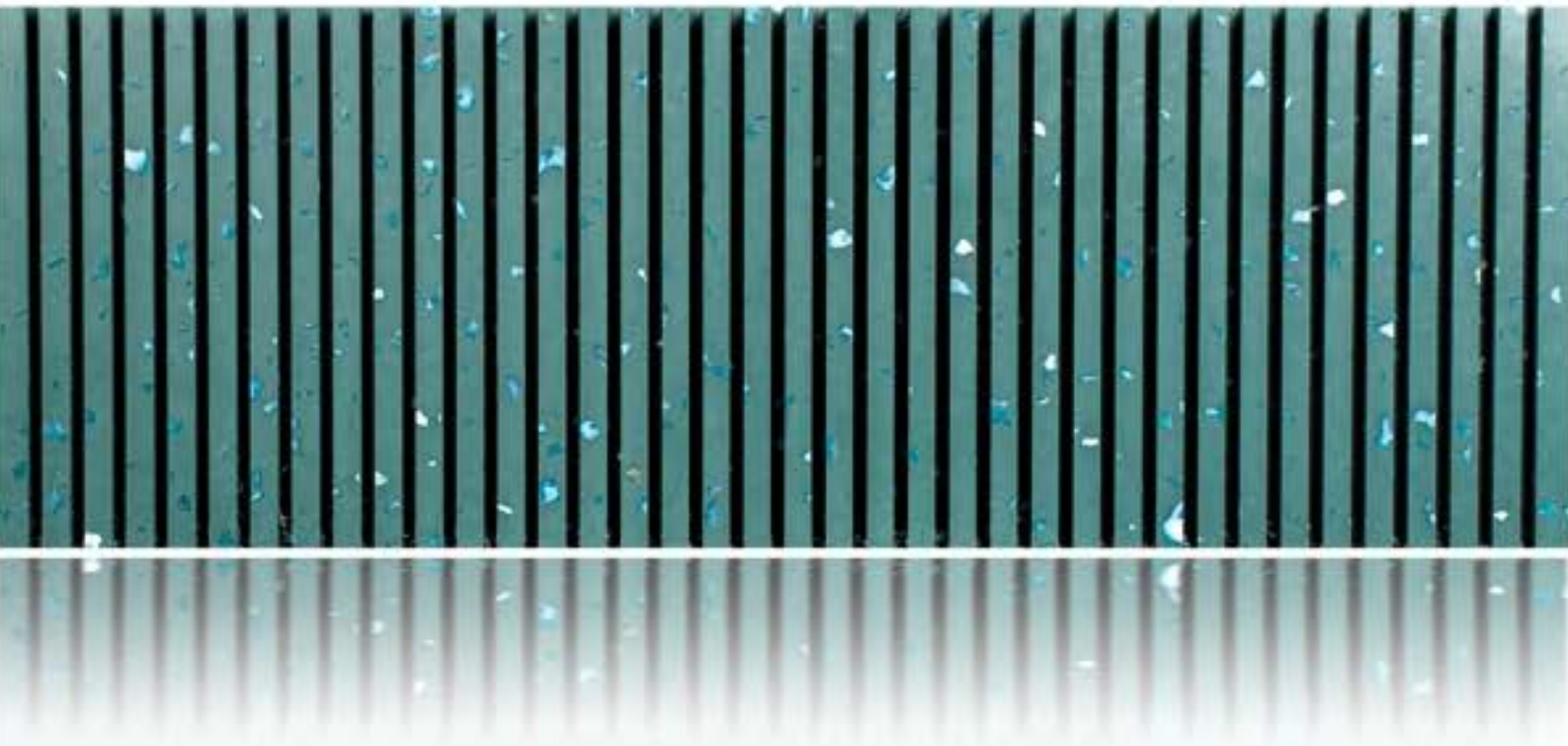
Polygood®
Material Data Sheet



polygood
by the good plastic company

EPD®
THE INTERNATIONAL EPD® SYSTEM

CERTIFIED
cradle to cradle
BRONZE

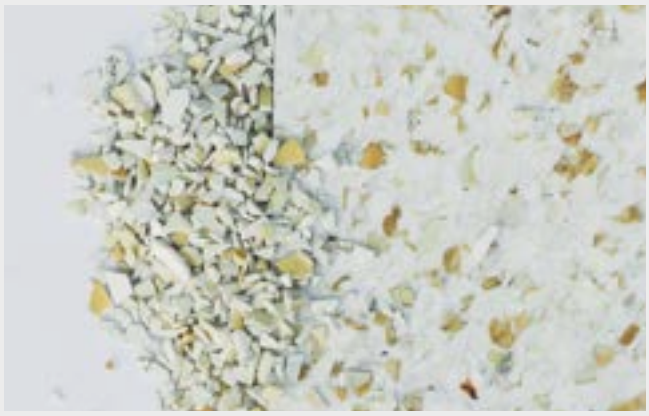
Content

03 Product

About Polygood®

Polygood® stands as a remarkable achievement in sustainable surface materials. It's a Cradle to Cradle Certified® Bronze material, reflecting our unwavering commitment to environmental responsibility. Made entirely from 100% recycled and recyclable plastic, Polygood® panels are the only large-scale sustainable product of their kind. Each panel's composition consists of a single type of recycled plastic, ensuring both simple recycling and robust, long-lasting quality.

The patterns derive from an array of post-consumer and post-industrial plastic waste sources, including items like refrigerators, single-use cutlery, household appliances, and manufacturing components.



Product Composition

100% recycled polystyrene

The Good Plastic Company has chosen recycled plastic as its sole material due to the company's commitment to reducing waste and contributing to the circular economy. This recycled plastic is sourced from EuCertPlast-certified suppliers specializing in recycling polystyrene derived from electronic and Waste from Electrical and Electronic Equipment (WEEE), as well as post-consumer and post-industrial waste sources. Recycled polystyrene (rPS), which forms the entire composition of Polygood® panels, was selected due to its lower energy demand compared to other polymers during the production process, thereby reducing environmental impact.

Key

Scratch resistant

UV resistant

Waterproof

Certifications 04

Polygood® is the first material of its kind to achieve many certifications that validate the company's leadership in sustainable materials.

The Cradle to Cradle® Bronze product propels Polygood to the forefront of the sustainable surface materials segment, offering architects, designers, and brands a trusted solution backed by rigorous analysis, audit, and testing. Polygood® is the first material of its kind to achieve this certification, solidifying The Good Plastic Company's position as an industry leader in sustainable materials and marking a significant milestone for the company.

Polygood® has been granted a verified Environmental Product Declaration (EPD). This accomplishment underscores our unwavering commitment to sustainability. An EPD includes the assessment of a product's environmental characteristics throughout its entire lifecycle, covering the entire value chain: from material extraction to production, product use, and end-of-life disposal.

A VOC A+ rating indicates that the surface material emits very low levels of VOCs into the indoor environment.
Polygood® aligns with BREEAM standards for construction materials, making it a low-VOC emitting material. We have conducted extensive tests to ensure that Polygood® doesn't emit any harmful substances.

05 Specifications

Note: all imperial measurements provided in parentheses in this document are approximate and provided for convenience only. Please only place reliance on metric measurements.

Dimensions:

2800 x 1400 mm (110” x 55”)

Thickness tolerance:

+/- 0.5 mm (+/- 0.02”)

Thickness gauges:

12 mm (½")
19 mm (¾")

Finishes:

Standard: semi-matte, single-faced
Available upon request: semi-gloss, high-gloss, or double-faced
Coatings: scratch-resistant, fire-resistant

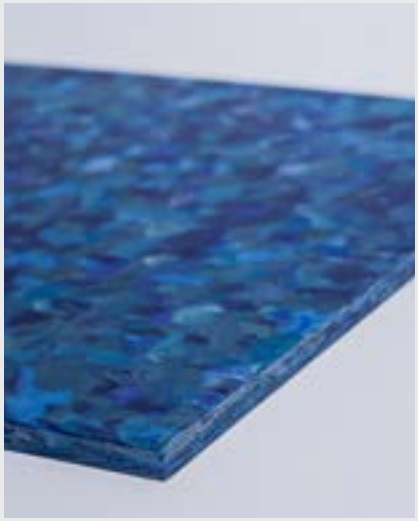
Panel weight:

50-78 kg (110-172 lbs)

Pattern Groups 06

I — Light

II — Dark



III — Terrazzo

IV — Grey & Emerald

V — Marbellous

VI — Translucent

VII — Salt Dune

07 Group I – Light

Madrid Content City by Dear Design, Revolución Limo
Spain

Bathroom designs
Netherlands

Table collection by Hello Again Design
Switzerland & Germany

Installation for Paris Design Week 2023
France

Group I – Light 08

VICTORIOUS
#PS1507
Refrigerators And CD Cases

SEA FOAM GREY
#PS2404
Refrigerators and spools, CNC shavings

WHITE TERRAZZO
#PS2107
Refrigerators, single-use plastic cutlery

WHITE LOLLIPOP
#PS1601
Refrigerators and single-use plastic cutlery

VINTAGE PEARL
#PS1101
Refrigerators

MILKY WAY
#PS1104
Refrigerators

TIMELESS DUO
#PS1201
Consumer electronics, spools and refrigerators

*Panel colour may vary from the photo

Scratch resistant UV resistant Waterproof

09 Group I – Light

Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	1878 MPa
Tensile strength	ISO 527-2:2012 (method A)	22 MPa
Modulus of elasticity	ISO 178:2010 (method B)	1927 N/mm²
Flexural strength	ISO 178:2010 (method B)	49.64 N/mm²
Izod impact strength test (notched)	ISO 180:2019 (A1)	8.33 kJ/m2
Heat deflection temperature	ISO 180:2023 (method A)	74.2°C
Vicat softening temperature	ISO 306:2022	97.3°C

Group II – Dark

Nike Rise Westfield
UK

LUSH Glatt
Switzerland

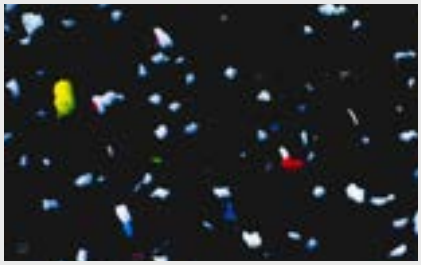
The Evolve Chair by Tom Robinson
UK

Adidas floor, by SAMJI Studio
France

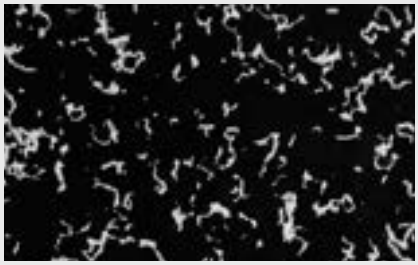
Morning co-working space
France

Group II – Dark

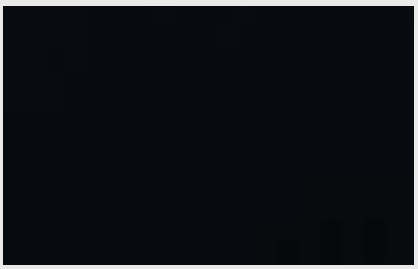
PATTERN NO. 5
#PS1203
Refrigerators, consumer electronics, spools



BLACK LOLLIPOP
#PS1602
Consumer electronics and single-use plastic cutlery

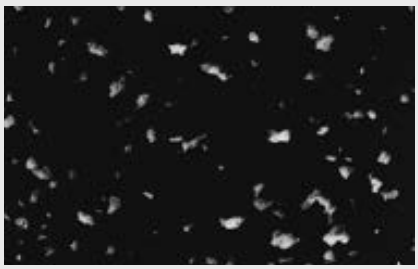


SEA FOAM DARK
#PS2401
Consumer electronics and single-use plastic cutlery



DARK KNIGHT
#PS1103
Spools and consumer electronics

REVERSE TIMELESS DUO
#PS1202
Refrigerators and spools, consumer electronics



GHOST
#PS1703
Refrigerators, TV's, keyboards, mice, spools

*Panel colour may vary from the photo

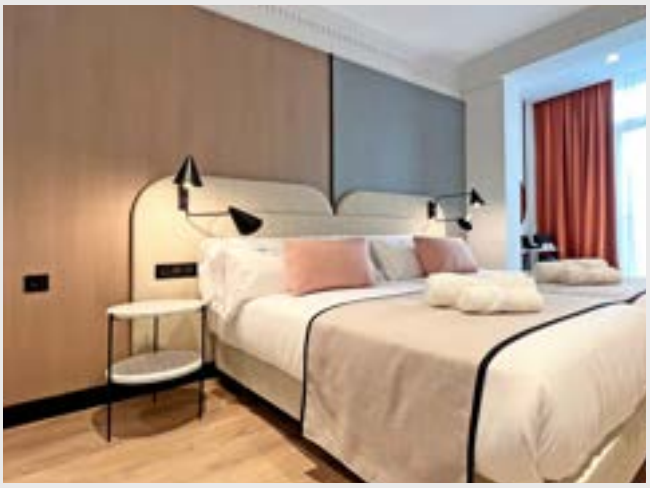
Scratch resistant UV resistant Waterproof

Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	1825 MPa
Tensile strength	ISO 527-2:2012 (method A)	24.0 MPa
Modulus of elasticity	ISO 178:2010 (method B)	1889 N/mm²
Flexural strength	ISO 178:2010 (method B)	52.01 N/mm²
Izod impact strength test (notched)	ISO 180:2019 (A1)	7.19 kJ/m2
Heat deflection temperature	ISO 180:2023 (method A)	74.2°C
Vicat softening temperature	ISO 306:2022	96.9°C

Group III – Terrazzo

Bar for London Design Festival 2023 by Isola
UK

De Bijenkorf department store
Netherlands

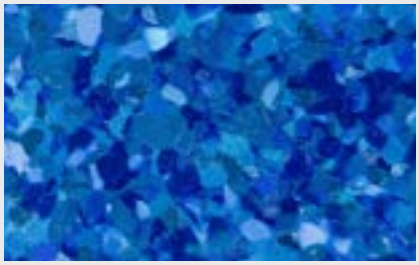


Soho Boutique Turia Hotel
Spain

Furniture for Paris Design Week 2023
France

Installation for Oslo Design Fair 2021
Norway

Group III – Terrazzo



SAPPHIRE TERRAZZO
#PS1801
Spools

TERRAZZO NUOVO
#PS1901
Refrigerators

*Panel colour may vary from the photo

Scratch resistant UV resistant Waterproof

Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	1877 Mpa
Tensile strength	ISO 527-2:2012 (method A)	22.6 Mpa
Modulus of elasticity	ISO 178:2010 (method B)	1999 N/mm²
Flexural strength	ISO 178:2010 (method B)	51.77 N/mm²
Izod impact strength test (notched)	ISO 180:2019(A1)	6.89 kJ/m2
Heat deflection temperature	ISO 180:2023 (method A)	74.5*C
Vicat softening temperature	ISO 306:2022	97.2 *C

Group IV – Grey & Emerald

McDonald's UK exterior cladding
UK

Furniture for London Design Festival, by Isola
France

Regina collection lamps, by Robin
Italy

Reel, by Tobia Zambotti
Iceland

15 Group IV – Grey & Emerald

MARBLE DESERT
#PS2110
Refrigerators and consumer electronics

GREYCIOUS
#PS1702
Home appliances and refrigerators

PURE GREY
#PS1102
Home appliances

EMERALD GHOST
#PS1706
Home appliances

*Panel colour may vary from the photo

Scratch resistant UV resistant Waterproof

Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	2025 MPa
Tensile strength	ISO 527-2:2012 (method A)	24.6 MPa
Modulus of elasticity	ISO 178:2010 (method B)	2101 N/mm²
Flexural strength	ISO 178:2010 (method B)	55.39 N/mm²
Izod impact strength test (notched)	ISO 180:2019 (A1)	7.92 kJ/m2
Heat deflection temperature	ISO 180:2023 (method A)	75.5°C
Vicat softening temperature	ISO 306:2022	96.3°C

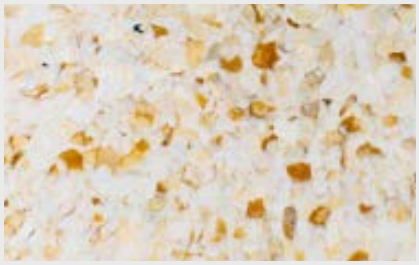
Group V – Marbellous

Marbellous chair by SAMJI

The Gabrielle table by SAMJI

Installation for Dutch Design Week

17 Group V – Marbellous



MARBELLOUS
#PS2001
Cooling and freezing equipment

*Panel colour may vary from the photo

Scratch resistant UV resistant Waterproof

Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	1954 MPa
Tensile strength	ISO 527-2:2012 (method A)	25.2 MPa
Modulus of elasticity	ISO 178:2010 (method B)	2000 N/mm²
Flexural strength	ISO 178:2010 (method B)	50.11 N/mm²
Izod impact strength test (notched)	ISO 180:2019 (A1)	9.92 kJ/m2
Heat deflection temperature	ISO 180:2023 (method A)	75.9°C
Vicat softening temperature	ISO 306:2022	97.5°C

Group VI – Translucent

Installation “Embracing the Elements”
Ireland

WAVE Chair by Rouven Westerholt
France

Installation "An Iceberg in the Desert Dubai"
UAE

Library by PlaceTic
France

Installation ”Climate Stripes” by Isola
France

London Design Festival
UK

Group VI – Translucent

MALDIVES
#PS1301
CD cases

CORAL REEF
#PS1501
Industrial tubes, acoustic panels

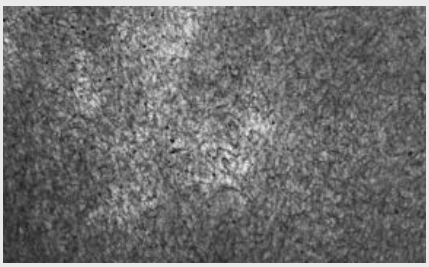
TRANSLUCENT NEON GREEN
#PS1306
CD cases

TRANSLUCENT RED
#PS1308
Industrial tubes

TRANSLUCENT GREEN
#PS1303
Refrigerators

TRANSLUCENT CLEAR
#PS1305
Refrigerators, single-use cutlery

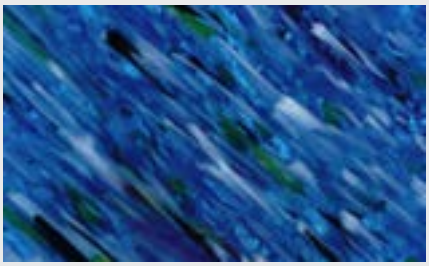
TRANSLUCENT PINK
#PS1304
Refrigerators and CD cases



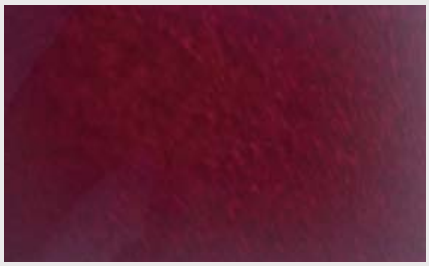
TRANSLUCENT BLACK
#PS1309
Refrigerators, spools, CNC shavings

YELLOW SUBMARINE
#PS1707
Refrigerators, single-use plastic cutlery

ICE LOLLIPOP
#PS1503
Tubes, single-use plastic cutlery



AQUA DRIFT
#PS1508
CD cases, cutlery

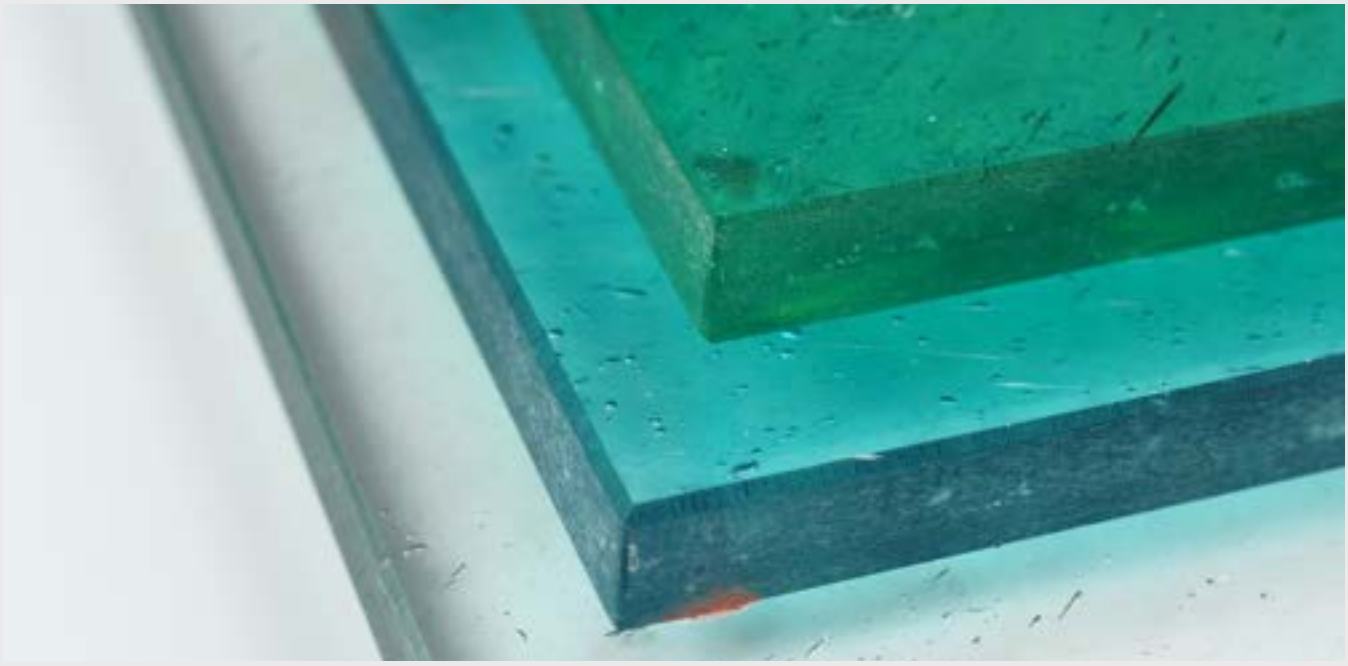


TRANSLUCENT BURGUNDY
#PS1310
CD cases

*Panel colour may vary from the photo

Scratch resistant UV resistant Waterproof

Group VI – Translucent



Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	3229 MPa
Tensile strength	ISO 527-2:2012 (method A)	49.2 MPa
Modulus of elasticity	ISO 178:2010 (method B)	3283 N/mm²
Flexural strength	ISO 178:2010 (method B)	108.48 N/mm²
Izod impact strength test (notched)	ISO 180:2019 (A1)	1.86 kJ/m² (C)
Heat deflection temperature	ISO 180:2023 (method A)	78.8°C
Vicat softening temperature	ISO 306:2022	96.3°C

Group VII – Salt Dune

Furniture for the Architizer A+ awards ceremony
France

Longevity Hub Prague
Czechia

Reception for THBX store
Netherlands

Spacesworks co-working centre
Norway

Paris Design Week 2023
France

Group VII – Salt Dune

SALT DUNE
#PS1701
Spools

*Panel colour may vary from the photo

Scratch resistant UV resistant Waterproof

Test name	ISO	Indicator
Tensile modulus	ISO 527-2:2012 (method A)	2602 MPa
Tensile strength	ISO 527-2:2012 (method A)	34.9 MPa
Modulus of elasticity	ISO 178:2010 (method B)	2690 N/mm²
Flexural strength	ISO 178:2010 (method B)	74.87 N/mm²
Izod impact strength test (notched)	ISO 180:2019 (A1)	9.10 kJ/m² (C)
Heat deflection temperature	ISO 180:2023 (method A)	79.0°C
Vicat softening temperature	ISO 306:2022	98.4°C

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