

Polygood[®]

Material Data Sheet



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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.

Pattern's inherent properties captions



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 (1/2")

19 mm (3/4")

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



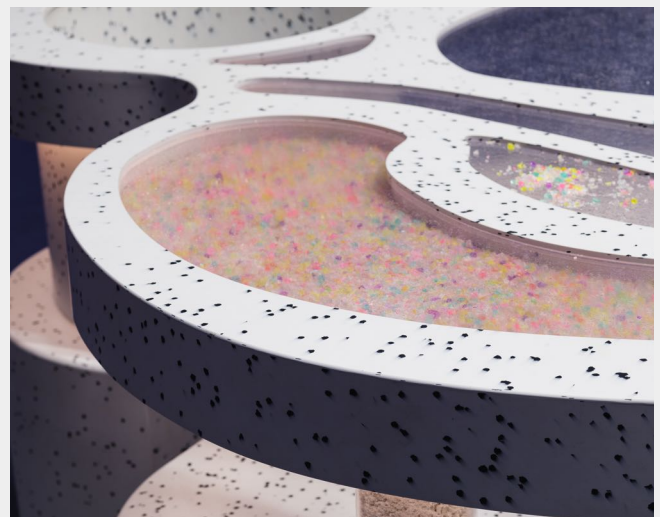
Madrid Content City by Dear Design, Revolution Limo Spain



Bathroom designs
Netherlands



Table collection by Hello Again Design
Switzerland & Germany





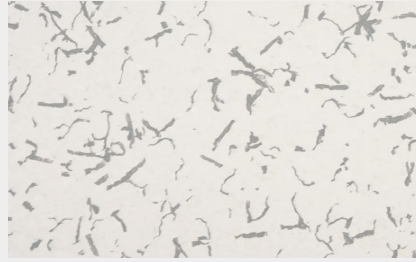
Installation for Paris Design Week 2023
France





Group I – Light ⁰⁸





VICTORIOUS  
#PS1507
Refrigerators And CD Cases





SEA FOAM GREY  
#PS2404
Refrigerators and spools, CNC shavings





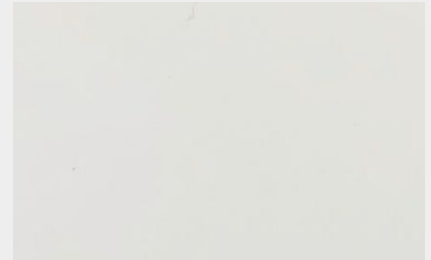
WHITE TERRAZZO  
#PS2107
Refrigerators, single-use plastic cutlery





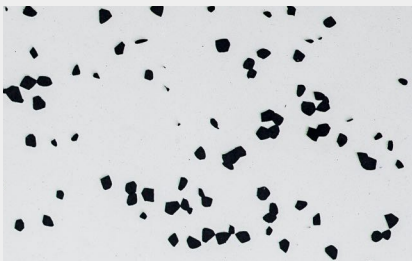
WHITE LOLLIPOP  
#PS1601
Refrigerators and single-use plastic cutlery





VINTAGE PEARL  
#PS1101
Refrigerators



MILKY WAY  
#PS1104
Refrigerators



TIMELESS DUO  
#PS1201
Consumer electronics, spools and refrigerators

*Panel color 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/mm ²
Flexural strength	ISO 178:2010 (method B)	49,64 N/mm ²
Izod impact strength test (notched)	ISO 180:2019 (A1)	8,33 kJ/m ²
Heat deflection temperature	ISO 180:2023 (method A)	74,2°C
Vicat softening temperature	ISO 306:2022	97,3°C



Group II – Dark ¹⁰



Nike Rise Westfield
UK



LUSH Glatt
Switzerland



The Evolve Chair by Tom Robinson
UK





Adidas floor, by SAMJI Studio
France

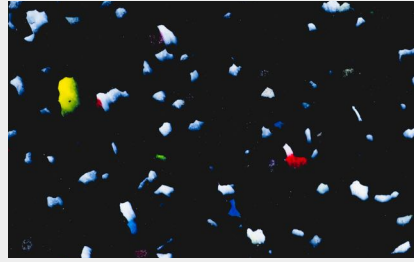




Morning co-working space
France

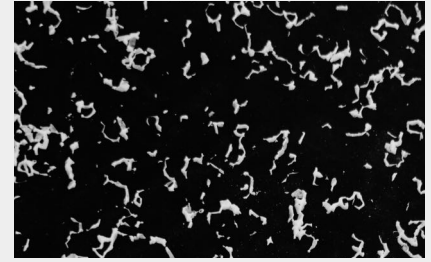
11 Group II – Dark





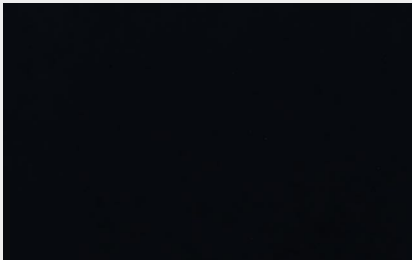
PATTERN NO. 5  
#PS1203
 Refrigerators, consumer electronics, spools





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





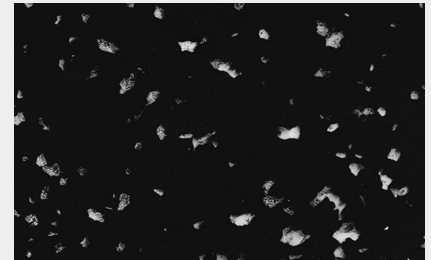
SEA FOAM DARK  
#PS2401
 Consumer electronics and single-use plastic cutlery





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 color 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/mm ²
Flexural strength	ISO 178:2010 (method B)	52,01 N/mm ²
Izod impact strength test (notched)	ISO 180:2019 (A1)	7,19 kJ/m ²
Heat deflection temperature	ISO 180:2023 (method A)	74,2°C
Vicat softening temperature	ISO 306:2022	96,9°C



Group III – Terrazzo 12



Bar for London Design Festival 2023 by Isola UK



De Bijenkorf department store Netherlands



Soho Boutique Turia Hotel Spain

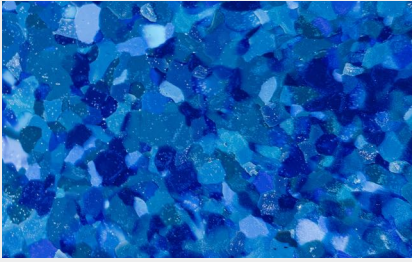


Furniture for Paris Design Week 2023 France



Installation for Oslo Design Fair 2021 Norway

13 Group III – Terrazzo



SAPPHIRE TERRAZZO
#PS1801
Spools



TERRAZZO NUOVO
#PS1901
Refrigerators



*Panel color 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/mm ²
Flexural strength	ISO 178:2010 (method B)	51,77 N/mm ²
Izod impact strength test (notched)	ISO 180:2019(A1)	6,89 kJ/m ²
Heat deflection temperature	ISO 180:2023 (method A)	74,5°C
Vicat softening temperature	ISO 306:2022	97,2 °C

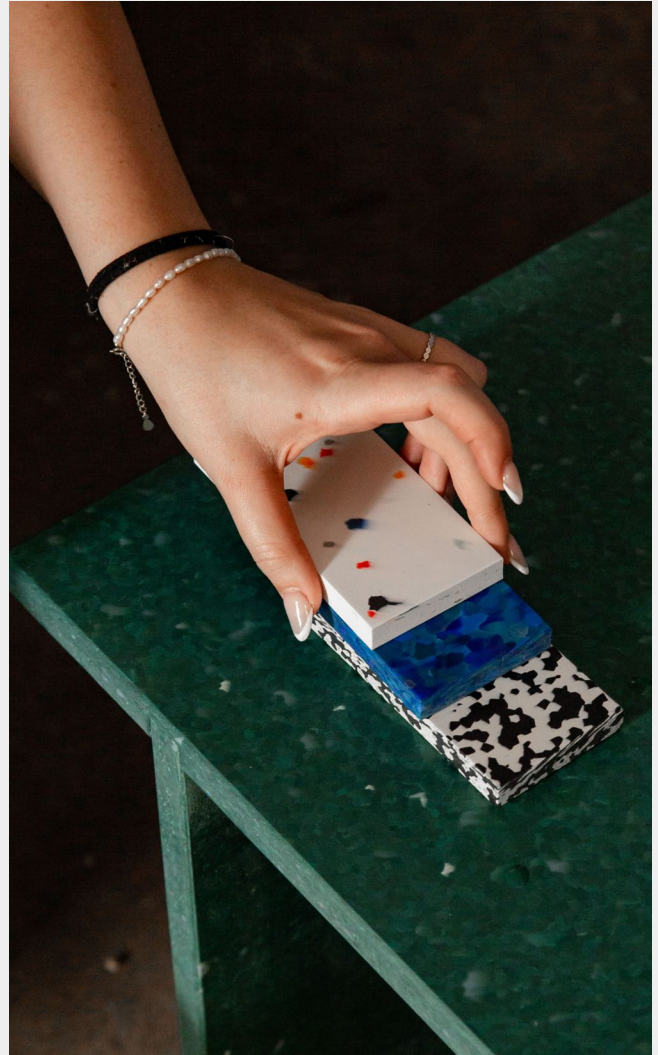


Group IV – Grey & Emerald

14



McDonald's UK exterior cladding
UK



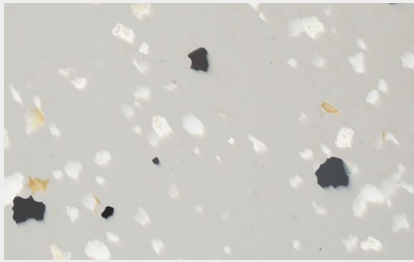
Furniture for London Design Festival, by Isola
France



Regina collection lamps, by Robin
Italy



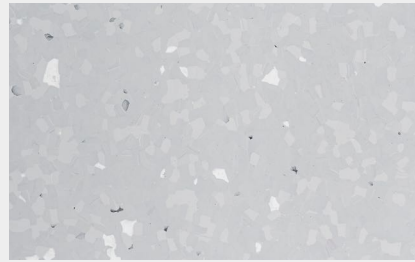
Reel, by Tobia Zambotti
Iceland



MARBLE DESERT

#PS2110

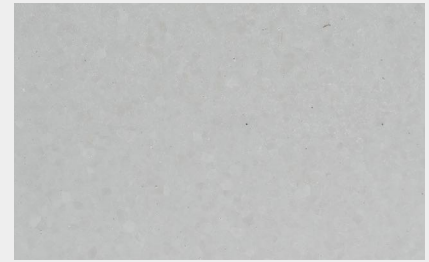
Refrigerators and consumer electronics



GREYCIOUS

#PS1702

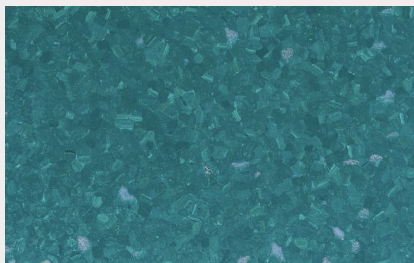
Home appliances and refrigerators



PURE GREY

#PS1102

Home appliances



EMERALD GHOST

#PS1706

Home appliances



*Panel color 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/mm ²
Flexural strength	ISO 178:2010 (method B)	55,39 N/mm ²
Izod impact strength test (notched)	ISO 180:2019 (A1)	7,92 kJ/m ²
Heat deflection temperature	ISO 180:2023 (method A)	75,5°C
Vicat softening temperature	ISO 306:2022	96,3°C



Group V – Marbellous

16



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 color 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/mm ²
Flexural strength	ISO 178:2010 (method B)	50,11 N/mm ²
Izod impact strength test (notched)	ISO 180:2019 (A1)	9,92 kJ/m ²
Heat deflection temperature	ISO 180:2023 (method A)	75,9°C
Vicat softening temperature	ISO 306:2022	97,5°C



Group VI – Translucent

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Installation "Embracing the Elements"
Ireland



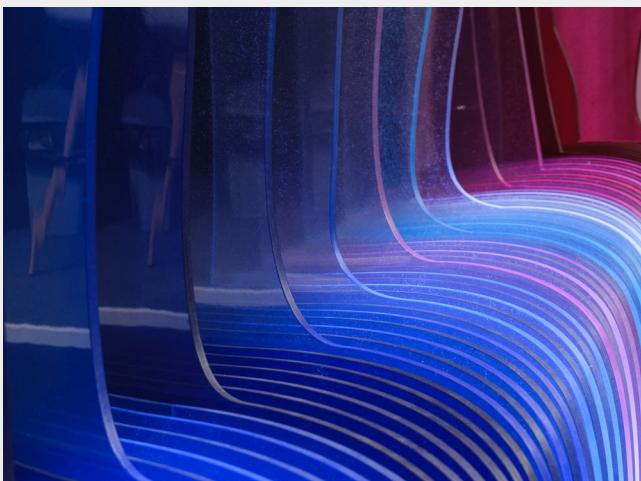
WAVE Chair by Rouven Westerholt
France



Installation "An Iceberg in the Desert Dubai"
UAE



Library by PlaceTic
France



Installation "Climate Stripes" by Isola
France



London Design Festival
UK



MALDIVES
#PS1301
CD cases



CORAL REEF
#PS1501
Industrial tubes, acoustic panels



TRANSLUCENT NEON GREEN
#PS1306
CD cases



TRANSLUCENT RED
#PS1308
Industrial tubes



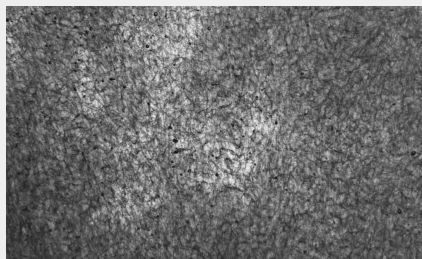
TRANSLUCENT GREEN
#PS1303
Refrigerators



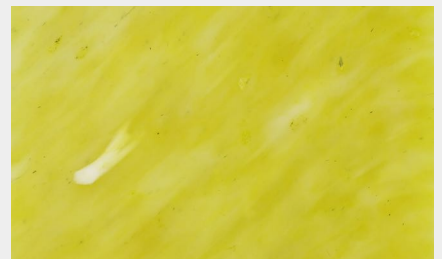
TRANSLUCENT CLEAR
#PS1305
Refrigerators, single-use cutlery



TRANSLUCENT PINK
#PS1304
Refrigerators and CD cases



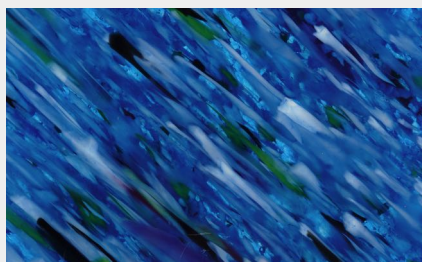
TRANSLUCENT BLACK
#PS1309
Refrigerators, spools, CNC shavings



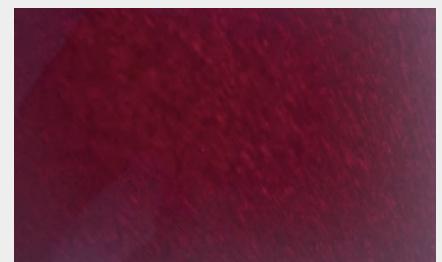
YELLOW SUBMARINE
#PS1707
Refrigerators, single-use plastic cutlery



ICE LOLLIPOP
#PS1503
Tubes, single-use plastic cutlery



AQUA DRIFT
#PS1508
CD cases, cutlery



TRANSLUCENT BURGUNDY
#PS1310
CD cases

*Panel color may vary from the photo



Scratch resistant



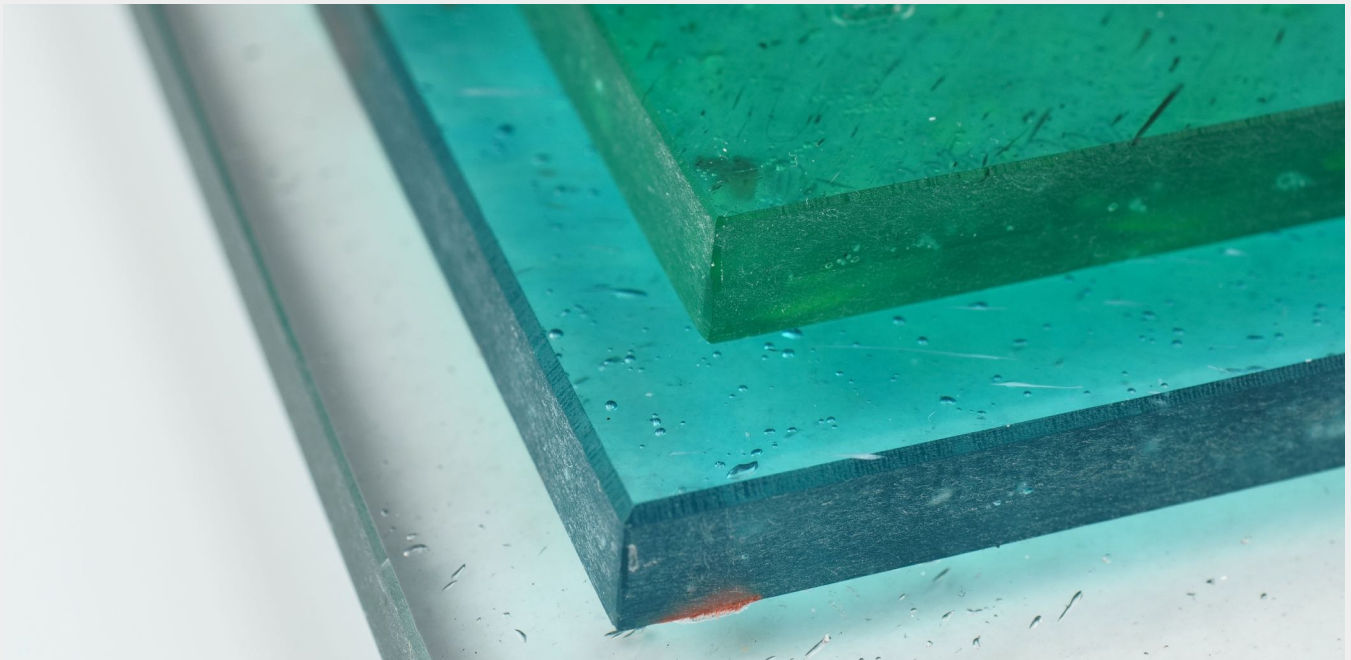
UV resistant



Waterproof



Group VI – Translucent ²⁰



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/mm ²
Flexural strength	ISO 178:2010 (method B)	108,48 N/mm ²
Izod impact strength test (notched)	ISO 180:2019 (A1)	1.86 kJ/m ² (C)
Heat deflection temperature	ISO 180:2023 (method A)	78,8°C
Vicat softening temperature	ISO 306:2022	96,3°C

21 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 ²²



SALT DUNE

#PS1701

Spools



*Panel color 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/mm ²
Flexural strength	ISO 178:2010 (method B)	74,87 N/mm ²
Izod impact strength test (notched)	ISO 180:2019 (A1)	9.10 kJ/m ² (C)
Heat deflection temperature	ISO 180:2023 (method A)	79,0°C
Vicat softening temperature	ISO 306:2022	98,4°C



Polygood®

hello@thegoodplasticcompany.com
<https://polygood.com>

Netherlands
The Good Plastic Company B.V.
+31 (0)20 399 1260
KVK 73403636
Keersluisweg 7, Hal 1, 1332 EE Almere, Netherlands

