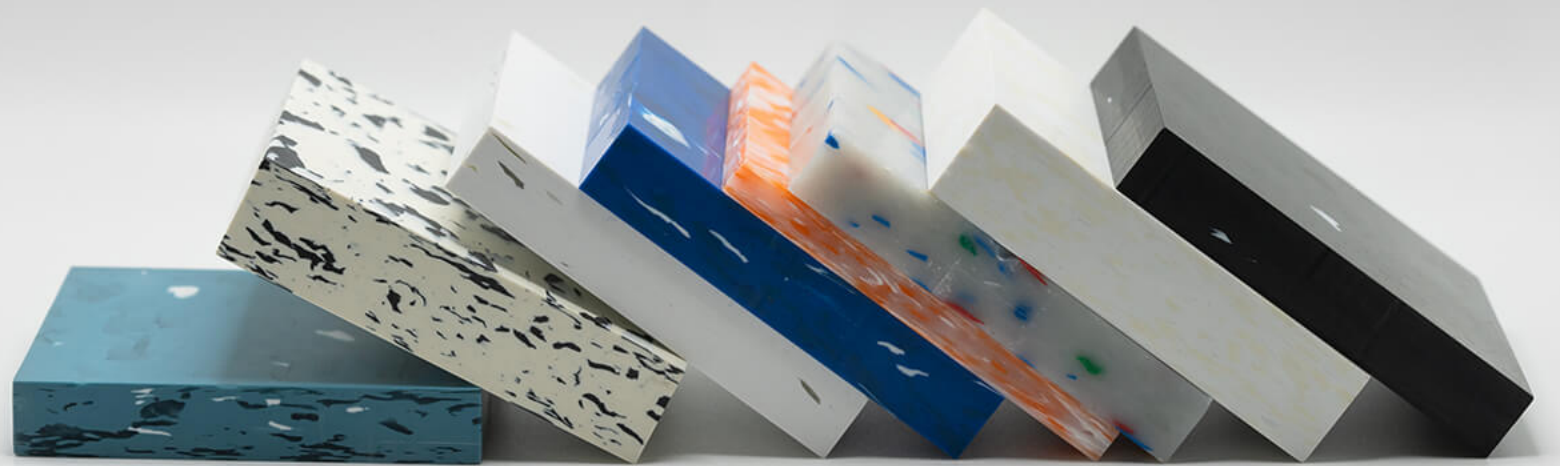


**trs**  
the recycle studio



**MATERIALS CATALOGUE** —

**WASTE IS A  
CONCEPT.**

**AND WE'RE HERE TO CHALLENGE IT.**

**WE ARE MATERIAL DESIGNERS  
TRANSFORMING WOULD-BE PLASTIC  
WASTE INTO HEAD-TURNING SHEET  
MATERIALS FOR CIRCULAR DESIGN.**

**TO THE BOUNDARY-PUSHERS, THE  
CREATIVES, THE ENVIRONMENTALISTS,  
THE CAN-DOERS, THE STORY-TELLERS  
AND THE OPTIMISTS, OUR MATERIALS  
ARE DESIGNED FOR YOU.**

**LET'S TURN PLASTIC WASTE INTO  
SOMETHING WORTH CELEBRATING.**

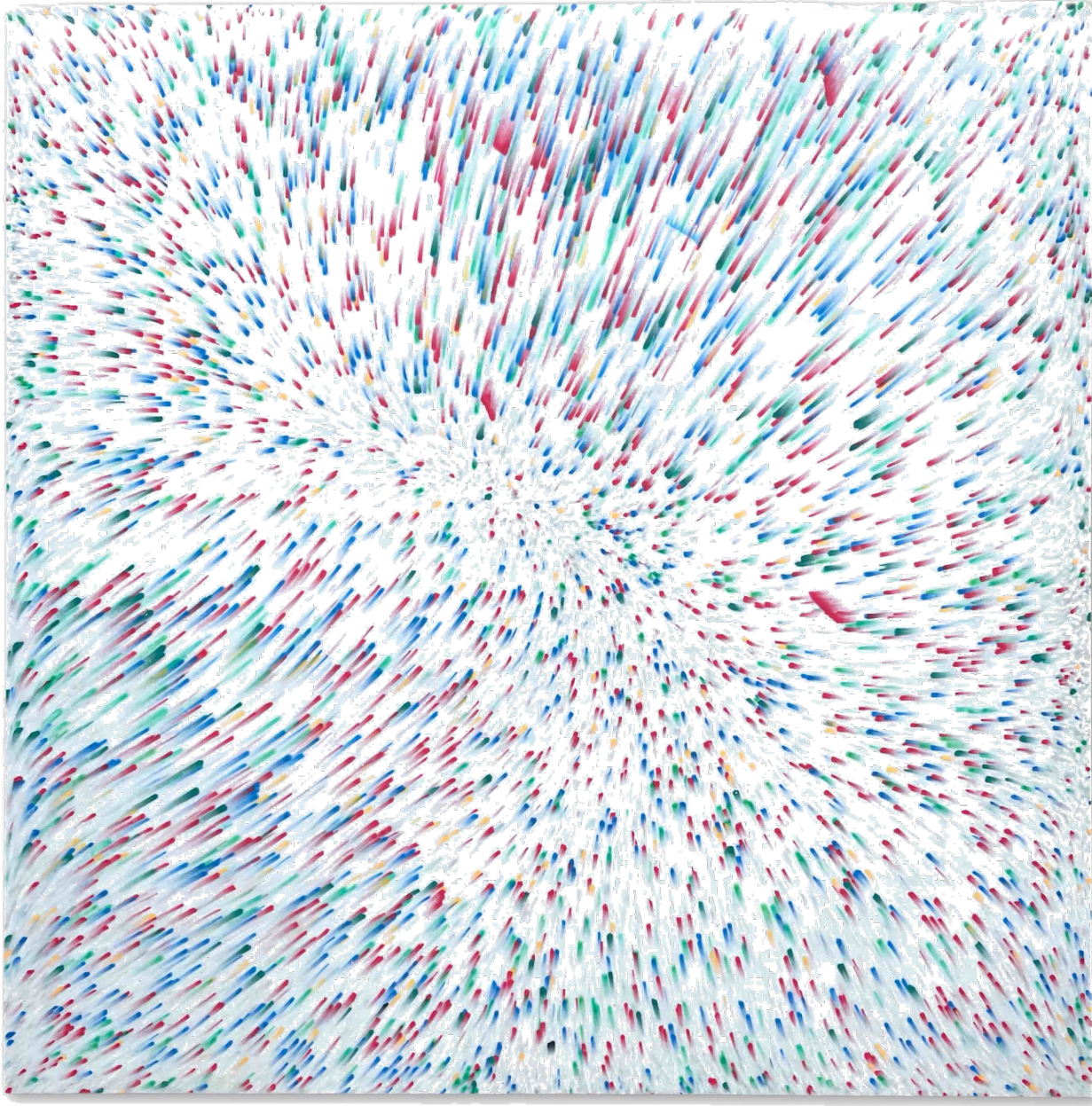
# CONTENTS

---

1. MATERIALS
2. COLLECTIONS
3. BESPOKE
4. SERVICES
5. PRICING
6. HOW TO ORDER
7. MATERIAL CARE
8. TECHNICAL SPECS

**BOUNDARY-PUSHING SHEET  
MATERIALS FOR CIRCULAR  
DESIGN, WITH UP TO 28  
KILOS RECYCLED PLASTIC  
WASTE IN EACH SHEET.**





# TRS MATERIALS —

**SIZING: PANELS OF 100 CM X 100 CM**

**THICKNESSES: 0.25", 0.5", 0.75", 1"**

**CIRCULARITY: 100% RECYCLED AND RECYCLABLE, MADE USING RENEWABLE ENERGY**

**APPLICATIONS: FURNITURE, SURFACES, WALL COVERINGS, PRODUCT DESIGN, ART ETC.**



# COLLECTIONS ---

WE DIVIDE OUR MATERIAL DESIGNS  
INTO TWO COLLECTIONS:

THE BASE COLLECTION

THE LIMITED COLLECTION

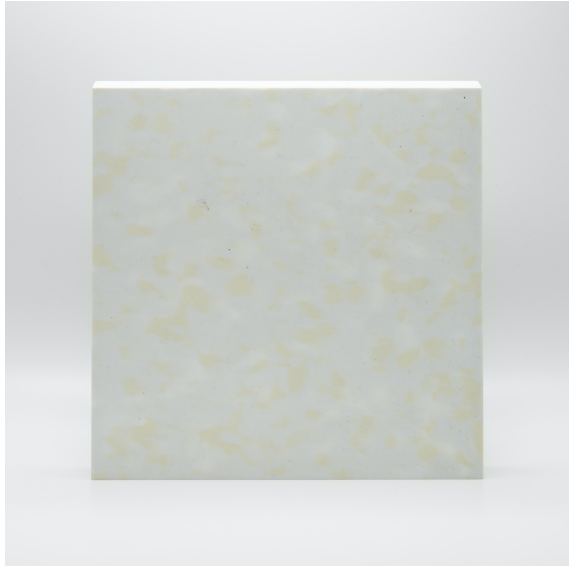
# COLLECTIONS

MATERIALS WITHIN THE BASE COLLECTION ARE TYPICALLY ALWAYS AVAILABLE, ALTHOUGH THERE COULD BE SMALL VARIATIONS IN TONES DUE TO THE PLASTICS WE RECEIVE. IF YOU'RE CONSIDERING A BIG PROJECT, IT'S BEST TO LET US KNOW SO WE CAN HELP ENSURE THAT THERE IS STANDARDISATION ACROSS YOUR ORDER.

THE MATERIALS IN OUR LIMITED COLLECTION ARE DESIGNED FROM LIMITED PLASTIC SOURCES WHICH MEANS THAT THEY ARE NOT ALWAYS AVAILABLE, AND IN SOME DESIGNS, IT'S UNLIKELY WE'LL BE ABLE TO REPEAT THEM ONCE THEY ARE GONE.

WE RECOMMEND TO ALWAYS CONSULT THE AVAILABILITY OF ANY MATERIAL BEFORE BEGINNING YOUR DESIGN PROCESS TO AVOID ANY DISAPPOINTMENT.

## CURRENT COLLECTION



### PALOMA

HIGH-IMPACT  
POLYSTYRENE (HIPS).

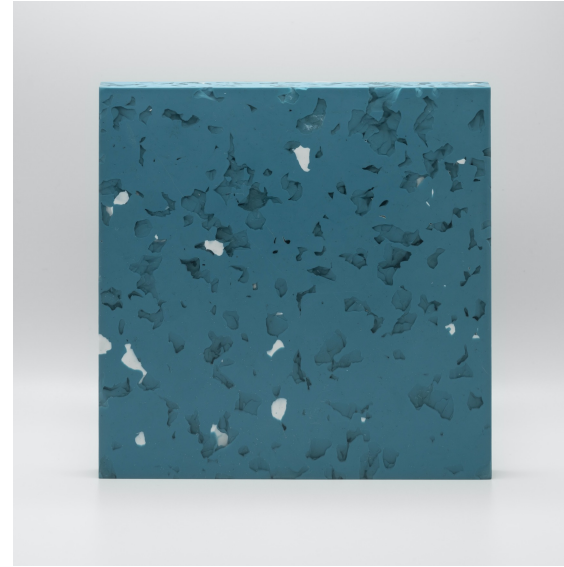
PART OF OUR BASE  
COLLECTION.



### CLORO

HIGH-IMPACT  
POLYSTYRENE (HIPS).

PART OF OUR BASE  
COLLECTION.



### ELYSIAN

HIGH-IMPACT  
POLYSTYRENE (HIPS).

PART OF OUR LIMITED  
COLLECTION.



### DÁLMATA

HIGH-IMPACT  
POLYSTYRENE (HIPS).

PART OF OUR BASE  
COLLECTION.



## CURRENT COLLECTION



### KOI OI

HIGH DENSITY  
POLYETHYLENE (HDPE).

PART OF OUR LIMITED  
COLLECTION.

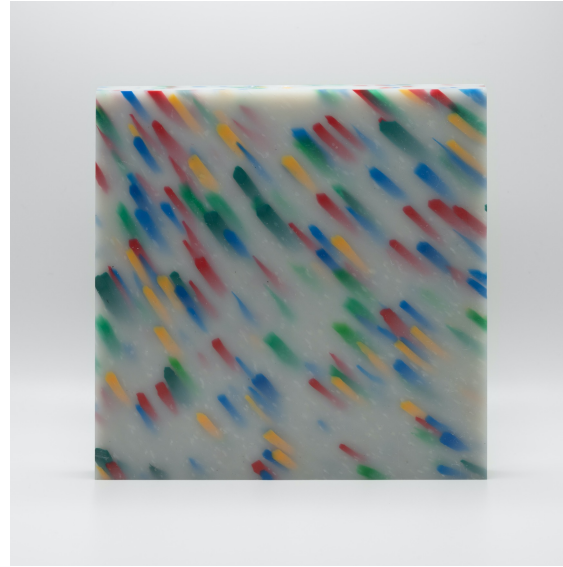
CURRENTLY ONLY  
AVAILABLE IN 0.25".



### CORY

HIGH-IMPACT  
POLYSTYRENE (HIPS).

PART OF OUR LIMITED  
COLLECTION.



### PAYASA

GENERAL PURPOSE  
POLYSTYRENE (GPPS).

PART OF OUR LIMITED  
COLLECTION.



### MEMPHIS

HIGH-IMPACT  
POLYSTYRENE (HIPS).

PART OF OUR LIMITED  
COLLECTION.

# BESPOKE MATERIALS

THE PERFECT OPPORTUNITY TO DESIGN A  
UNIQUE MATERIAL.

OUR CREATIVE TEAM WILL SUPPORT YOU IN  
DESIGNING A CUSTOM-MADE MATERIAL IN  
WHICH COLOURS, TEXTURES AND EVEN NEW  
SOURCES OF PLASTIC CAN BE EXPLORED. WE  
ARE SUBJECT TO THE AVAILABILITY OF OUR  
RAW MATERIAL, BUT WE'LL PUT IN OUR BEST  
EFFORT TO MAKE YOUR DESIGN A REALITY.

CONTACT US TO FIND OUT MORE ABOUT THE  
PROCESS.





# SERVICES

---

## **MATERIAL SELECTION**

**TO ENSURE GOOD PERFORMANCE, IT'S IMPORTANT TO SELECT THE MATERIAL AND THICKNESS THAT BEST FITS THE APPLICATION. IF THIS IS YOUR FIRST TIME WORKING WITH OUR MATERIALS, OR YOU'RE NOT SURE WHAT MIGHT BE BEST, OUR TEAM IS ON HAND TO GUIDE YOU THROUGH THIS DECISION.**

## **POST-PRODUCTION SERVICE**

**WITH THE EXPERIENCE OF TRANSFORMING OUR MATERIALS INTO FINISHED PRODUCTS, WE CAN TAKE CARE OF ANY CUTS OR JOINS THROUGH OUR POST-PRODUCTION SERVICE. JUST GET IN CONTACT WITH YOUR REQUIREMENTS.**

# PRICING

	BASE	LIMITED
0.25"	\$145	\$165
0.5"	\$170	\$195
0.75"	\$205	\$235
1"	\$240	\$280

THE PRICES ARE PER SQUARE METRE AND DON'T INCLUDE TAXES OR DELIVERY. THE POST-PRODUCTION SERVICE IS QUOTED SEPARATELY. PRICES ARE ALWAYS UPDATED ON OUR WEBSITE. THERE ARE DISCOUNTS AVAILABLE ON ORDERS OF MORE THAN 10 PANELS.

# HOW TO ORDER

---

**CONTACT US WITH:**

**YOUR SELECTION OF MATERIALS (DESIGN, THICKNESS AND QUANTITIES). FOR BESPOKE OPTIONS, PLEASE WRITE TO US VIA OUR WEBSITE OR THROUGH ONE OF OUR SOCIALS.**

**ANY SERVICE REQUESTS (MATERIAL SELECTION OR CUTS).**

**ADDRESS FOR DELIVERY**

**ONCE WE HAVE THIS INFORMATION, WE WILL WORK ON YOUR QUOTE AND ESTABLISH A TIMELINE FOR YOUR PROJECT. IF YOU HAVE ANY QUESTIONS AT ALL, JUST GET IN CONTACT.**

# MATERIAL CARE

OUR MATERIALS ARE EASY TO MAINTAIN AND LOOK AFTER, BUT THERE ARE A FEW DETAILS TO BEAR IN MIND.

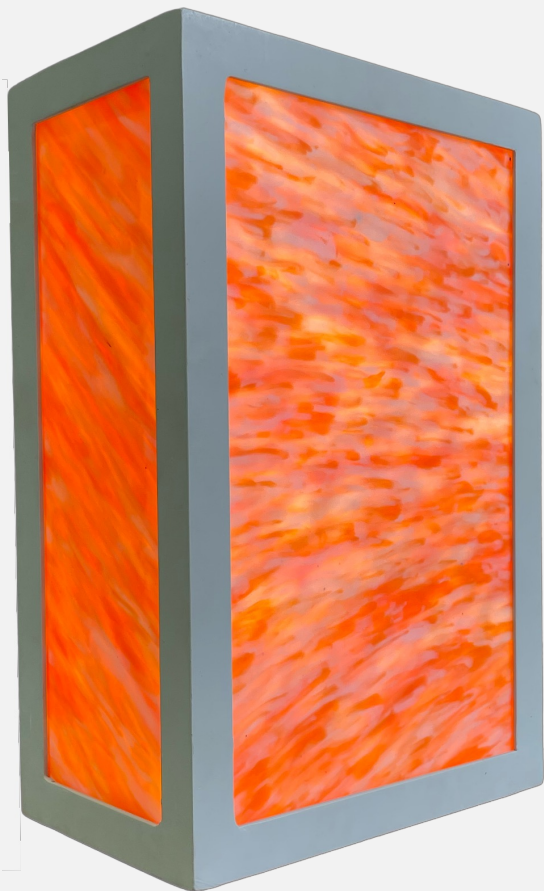
PLASTIC MELTS WHEN DIRECT HEAT IS APPLIED. THE MATERIALS RESIST UP TO 85°C, SO A CUP OF COFFEE IS FINE, BUT A HOT PAN IS NOT!

THE MATERIALS CAN BE CLEANED WITH STANDARD HOUSEHOLD DETERGENTS (SOAP, DISINFECTANT, DILUTED BLEACH). AVOID HEAVY DUTY CLEANERS (I.E., MURIATIC ACID) AS THESE WILL ERODE THE PLASTICS. IF YOU'RE UNSURE, WE SUGGEST YOU CARRY OUT A SMALL TEST ON A PART OF THE MATERIAL THAT ISN'T VISIBLE.

THE MATERIALS HAVE A MEDIUM SCRATCH RESISTANCE. IF YOU USE A BRUSH FOR CLEANING, WE RECOMMEND YOU USE A SOFT BRISTLE. MATERIALS CAN BE RETOUCHEDED USING A LIGHT SANDPAPER.

JUST LIKE MOST MATERIALS, DIRECT AND PROLONGED UV EXPOSURE CAN AFFECT THE MECHANICAL QUALITIES OF THE MATERIALS OVER TIME, AND WITH SOME TYPES OF PLASTIC CAUSE DISCOLOURATION. OCCASIONAL SUNLIGHT ISN'T A PROBLEM.

	HDPE	HIPS	GPPS
DENSITY DENSIDAD	99.7 g/m <sup>3</sup>	99.8 g/m <sup>3</sup>	99.8 g/m <sup>3</sup>
GLASS TRANSITION TEMPERATURE TRANSICIÓN VÍTREA		97.5°C	102°C
MELTING POINT PUNTO DE FUSIÓN	125°C		
THERMOGRAVIMETRIC ANALYSIS ANÁLISIS TERMOGRAVIMÉTRICO (TGA)	10% - 453°C 20% - 463°C 30% - 468°C	10% - 404°C 20% - 414°C 30% - 420°C	10% - 384°C 20% - 395°C 30% - 401°C
WEATHER RESISTANCE Temp 60°C, raditation 0.68 W/m2, cycles of 4 hours condensation and 4 hours radiation for 500 hours.  INTEMPERISMO Temperatura 60 °C, irradiación 0,68 W/m2, ciclos de 4 horas condensación y 4 horas de irradiación para 500 horas.	No significant visual changes  No se observan cambios visuales significativos	Significant visual changes observed on white materials (yellowing)  Se observan cambios visuales significativos (amarillamiento) en materiales blancos	No significant visual changes  No se observan cambios visuales significativos
HUMIDITY / HUMEDAD	0.06%	0.01%	0,04%
MAXIMUM RESISTANCE / RESISTENCIA MÁXIMA	2364.99 Mpa (kg/cm <sup>2</sup> )	1918.67 (kg/cm <sup>2</sup> )	3232.45 (kg/cm <sup>2</sup> )
TENSILE STRENGTH / ELONGACIÓN A LA RUPTURA	15.84%	17.41%	3.92%
MAXIMUM FORCE The samples were analysed at 0, 250 and 500 hours of accelerated ageing through the weather resistance tests conducted above.  FUERZA MÁXIMA Las muestras fueron expuestas a 0, 250 y 500 horas de envejecimiento acelerado con las pruebas de interperismo realizadas.	0 hrs 2075.84 N 250 hrs 1309.09 N 500 hrs 1007.62 N	0 hrs 1594.06 N 250 hrs 1618.19 N 500 hrs 1576.14 N	0 hrs 1541.56 N 250 hrs 1569.00 N 500 hrs 1419.37 N



**trs**  
the recyc $\text{\textcircled{e}}$  studio

San José, Costa Rica

[www.therecyclestudio.com](http://www.therecyclestudio.com)

Instagram: @trs.cr

[hola@trs.cr](mailto:hola@trs.cr)

+506 6245 9954 | +506 6245 6087