



POST-CONSUMER RECYCLED RESIN

MECHANICAL RECYCLING



CONNECTING THE WORLD THROUGH RECYCLING SOLUTIONS

CHEMICALS BUSINESS FOR SUSTAINABILITY

SCGC is determined to achieve leadership in integrated chemicals business for sustainability and committed to conducting business in line with Environmental, Social, and Governance (**ESG**) for achieving Sustainable Development Goals (SDGs) with SCGC sustainable development strategies.



ESG Strategic Directions

Towards our vision for sustainable future, SCGC has integrated the concept of circular economy into our core strategies to provide green solutions in polymer business, resulting in **SCGC GREEN POLYMER™** with 4 major solutions: **Reduce, Recyclable, Recycle, and Renewable.**

SCGC Green Solutions to Enable Circularity



REDUCE
Enhancing Material
for Eco-efficiency



RECYCLABLE
Design for
Recyclability



RECYCLE
Mechanical &
Advanced Recycling



RENEWABLE
Bioplastics

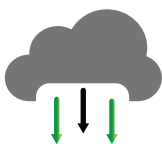
**“ With sustainability at the core of our business,
SCGC is passionately committed to improving people’s lives
and protecting the world for future generations ”**

Our Goals



1 MMT
Sales Volume of
Green Polymer
by 2030

=



1.77 MMT
GHG Emission
Reduction by
2030*

=



187 Million
Tree Planting**

Remarks: *Green House Gas reduction calculation guideline by Thailand Green Gas Management Organization
**0.0095 MT CO2 absorption/tree/year

A PARTNERSHIP WITH GLOBAL NETWORK

REKS

Kosovo



REKS LLC is positioned to rapidly become the largest plastic recycling facility in the region with a capacity of **16,000 tons**. The facility combines the entire plastic recycling process, encompassing collection, separation, washing, and conversion into LDPE re-granulate, while also providing support to clients in creating closed-loop systems.

Partnering with Kras, and KIVO LLC. Kras is an international undertaking established for over 70 years headquartered in Volendam, Netherlands. The company is focusing on collecting, sorting, and processing plastic waste for reuse and raw materials. We prioritize responsible waste handling, underlining social and environmental responsibility.

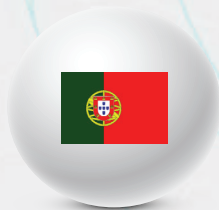
KIVO LLC is the largest flexible plastic packaging producer in the western Balkans to offer a wide range of products towards industrial consumer markets.

Material availability: rLLDPE, rLDPE



Sirplaste

Portugal



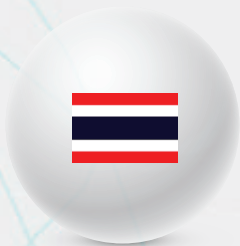
Sirplaste is pioneers in Portugal, A company with almost 50 years of experience in the world of recycling plastic waste.

Sirplaste receives plastic waste, a material indispensable to their activity, in bales or big bags. The plastic waste is then inspected, sorted, crushed, washed, and extruded into granules to be delivered customer base in Portugal and other European countries with an annual production capacity of **45,000 tons**.

Material availability: rHDPE, rLDPE, rPP



TO STRENGTHEN THE MECHANICAL RECYCLING SOLUTION



Thailand

SCGC is a leading integrated chemical player in ASEAN with strategic bases in Vietnam, Indonesia, and Thailand, offering a full range of petrochemical products ranging from upstream production of olefins to downstream production of 3 main plastics resins: polyethylene, polypropylene, and polyvinyl chloride.

With sustainability at the core of our business, we can turn waste into high-quality PCR by Mechanical Recycling with **6,000 tons** to recover the value of used plastics and sustainably minimize waste under circular economy principles.

Material availability: rHDPE, rPP, rLLDPE, rLDPE



High Density Polyethylene



Grade	Color	Recommended Application	Melt Flow Rate at 190°C/2.16kg	Density	Flexural Modulus	Tensile Strength at Break	Elongation at Break	Notched Izod Impact	ESCR F50 (Igepal 10%)
			ASTM D1238	ASTM D792	ASTM D790	ASTM D638	ASTM D638	ASTM D256@23°C	ASTM D638
			g/10 min	g/cm ³	MPa	MPa	%	J/m	Hrs
PCRHO1BN	Natural	Bottle, Gallon, Film	0.4	0.96	1,100	20	900	90	24
PCDH01BN	Natural	Bottle, Gallon, Film	0.4	0.96	1,100	20	900	90	24
PCDH02BW	White	Bottle, Gallon, Film	0.4	0.98	1,000	20	800	50	24
PCRHO3BB	Black	Bottle, Gallon, Film	0.5	0.97	1,000	15	500	50	24



High Density Polyethylene

Sirplaste®



Grade	Color	Recommended Application	Melt Flow Rate at 190°C/2.16kg	Density	Flexural Modulus	Tensile Strength at Break	Elongation at Break	Notched Izod Impact	ESCR F50 (Igepal 10%)
			ISO 1133-1	ISO 1183-1	ISO 178	ISO 527-2	ISO 527-2	ISO 180/A @23°C	ASTM D1693
			g/10 min	g/cm³	MPa	MPa	%	kJ/m²	Hrs
SIRPRIME B 00 022 NA AX	Natural	Bottle	0.2 - 0.5	0.94 - 0.96	700	12	150	25	72
SIRPRIME B 00 015 WH AX	White	Bottle	0.2 - 0.5	0.95 - 0.97	700	12	250	25	72
SIRPAD B 00 017 BK	Black	Bottle, Pipe	0.5 - 0.9	0.94 - 0.96	730	11	350	11	24
SIRPAD B 00 017	Grey, Blue, Green	Bottle, Pipe	0.5 - 0.9	0.94 - 0.96	730	10	350	12	24
SIRPAD BP 00 017 BK	Black	Pipe	0.5 - 0.9	0.94 - 0.96	700	12	220	18	24
SIRBLEND C 00 160 IM	Black, Grey	Large Container	5.0 - 8.0	0.90 - 0.95	700	15	120	7	24



Low Density Polyethylene

Linear Low Density Polyethylene

Grade	Color	Recommended Application	Melt Flow Rate at 190°C/2.16kg	Density	Tensile Strength at Break (MD/TD)	Elongation at Break (MD/TD)	Dart Drop Impact Strength (g)
			ASTM D1238	ASTM D792	ASTM D882	ASTM D882	ASTM D1709
			g/10 min	g/cm ³	MPa	%	J/m
PCDL01FN	Translucent	Film	1.6	0.923	23/17	630/727	84

Grade	Color	Recommended Application	Melt Flow Rate at 190°C/2.16kg	Density	Tensile Strength at Yield	Notched Izod Impact	Strain at tensile Strength
			ISO 1133	ISO 1183	ISO 527	ISO 180/A	ISO 527
			g/10 min	g/cm ³	MPa	J/m	%
REKS - rLDPE Natural A	Natural	Film	0.20 - 0.75	0.910 - 0.925	14.6	>50 (no break)	89
REKS - rLLDPE Natural A	Natural	Film	1.50 - 2.50	0.890 - 0.925	14.6	>45 (no break)	>350
REKS - rLDPE Light Color	Light grey, Green	Film	0.30 - 1.40	0.900 - 0.925	14	41.8	149
REKS - rLDPE Light Color B	Light grey, Green	Film, Pipe, Profile	0.50 - 1.00	0.931 - 0.935	17	51.3 (no break)	301
REKS - rLDPE Dark Color	Dark Color	Film, Pipe, Profile	0.38 - 0.57	0.937 - 0.941	16.2	61.1	250
REKS - rLL/LD Translucent (rLL/LD Translucent)	Translucent	Film, Pipe, Profile	6.50 - 9.70	0.921 - 0.925	18.6	19	347

Low Density Polyethylene

Sirplaste®



Grade	Color	Recommended Application	Melt Flow Rate at 190°C/2.16kg	Density	Tensile Strength at Break	Elongation at Break
			ISO 1133-1	ISO 1183-1	ISO 527-3	ISO 527-3
			g/10 min	g/cm³	MPa-(MD/TD)	%(MD/TD)
SIRFILM PA 00 008 NA MA 2	Natural	Film	0.3 - 0.7	0.92 - 0.94	20/18	300/500
SIRFILM 00 008	Black, Grey, Blue, Green, Yellow, White	Film	0.6 - 1.2	0.93 - 0.95	18/15	350/500
SIRMIX 00 008	Black	Pipe, Film, Profile	0.6 - 1.1	0.93 - 0.95	15/12	300/500
SIRTUB 00 008 BK	Black	Pipe, Profile	0.5 - 1.0	0.93 - 0.95	15/12	300/500
SIRFORCE 00 008	Black, Grey	Profile	0.5 - 1.0	0.93 - 0.95	15/12	300/500



Polypropylene



 Thailand

Grade	Color	Recommended Application	Melt Flow Rate at 230°C/2.16kg	Density	Flexural Modulus	Tensile Strength at Break	Elongation at Break	Notched Izod Impact
			ASTM D1238	ASTM D792	ASTM D790	ASTM D638	ASTM D638	ASTM D256@23°C
			g/10 min	g/cm ³	MPa	MPa	%	J/m
PCDP01JN	Natural	Cap, Jar	6	0.910	1,300	20	150	50
PCDP02JN	Natural White	Cap, Pail, Jar	12	0.910	1,000	20	200	110

Sirplaste®

 Portugal

Grade	Color	Recommended Application	Melt Flow Rate at 230°C/2.16kg	Density	Flexural Modulus	Tensile Strength at Break	Elongation at Break	Notched Izod Impact
			ISO 1133-1	ISO 1183-1	ISO 178	ISO 527-2	ISO 527-2	ISO 180/A @23°C
			g/10 min	g/cm ³	MPa	MPa	%	KJ/m ²
SIRPROP CP 00 200 BK IM	Black	Injection goods	15 - 20	0.915 - 0.935	1,000	18	150	5
SIRPROP CP 00 020	White	Film, Profile	2 - 7	0.890 - 0.910	800	17	400	9



COLOR



NATURAL



NATURAL WHITE



WHITE



TRANSLUCENT



HONEY



LIGHT GREY



GREY



YELLOW



BLUE



GREEN



BLACK





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Sirplaste®

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