



Sirplaste[®]

ABOUT SIRPLASTE

Pioneers in Portugal, we are a company with over 50 years of experience in the world of recycling plastic waste.

Sirplaste has become a leading innovator in the plastic recycling industry, committed to sustainable solutions and the circular economy.



With a focus on high-quality recycled materials, Sirplaste utilizes advanced technologies to transform plastic waste into valuable recycled granules for various applications with an annual production capacity of **54.000 tons.**



We respect the environment, recovering plastic waste and transforming it into granulated product of recognized quality.



We have advanced machines and techniques that guarantee complete quality control up to our final product.



We implement an integrated Quality and Environmental Management System, being a key player in the provision of recycling services and on the commercialization of plastics materials.



Certified by RecyClass, a European standard that verifies traceable and responsible recycling processes for pre and post-consumer plastic waste at the production site.



A STEP FORWARD WITH SCGC

Sirplaste – Sociedade Industrial de Recuperados de Plástico, S.A., has partnered with SCGC, a leading integrated chemical player in ASEAN with a full range of petrochemical products from upstream olefins to downstream polyethylene, polypropylene, and polyvinyl chloride.

This strategic partnership reflects a shared commitment to advancing the circular economy. Seeing strong potential in combining Sirplaste's long-standing expertise in recycling with SCGC's innovation and regional leadership, both companies aim to scale up recycled plastic production, expand product offerings, and strengthen their presence in global markets.





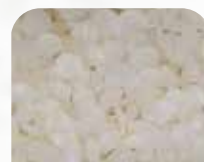
Sirplaste®



HIGH DENSITY POLYETHYLENE



White



Natural

Grade	Color	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%)	Ash Content	PP Content
		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	Natural	0.3	0.950	700	12	150	25	72	<0.5	<0.5
SIRPRIME B 00 015 WH	White	0.3	0.965	700	11	350	25	72	<3.5	<1



HIGH DENSITY POLYETHYLENE

Recommended Applications

► **SIRPRIME NA AX | SIRPRIME WH AX**

Odor Level: Fully Deodorized

Color Variation: Lab Controlled

Contamination: Chemical Migration Controlled

CosPaTox



Cosmetic Bottles

► **SIRPRIME NA MS | SIRPRIME WH MS**

Odor Level: Optimized Deodorization

Color Variation: Lab Controlled

Contamination: Hot Washed & Black Spot Controlled



Personal Care Bottles

► **SIRPRIME NA | SIRPRIME WH**

Odor Level: Conventional PCR

Color Variation: Conventional PCR

Contamination: Hot Washed PCR



Home Care Bottles

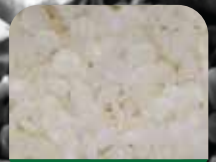


HIGH DENSITY POLYETHYLENE

PCR Odorless Product



White



Natural

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
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	60	24



HIGH DENSITY POLYETHYLENE

PCR Regular Product



Natural



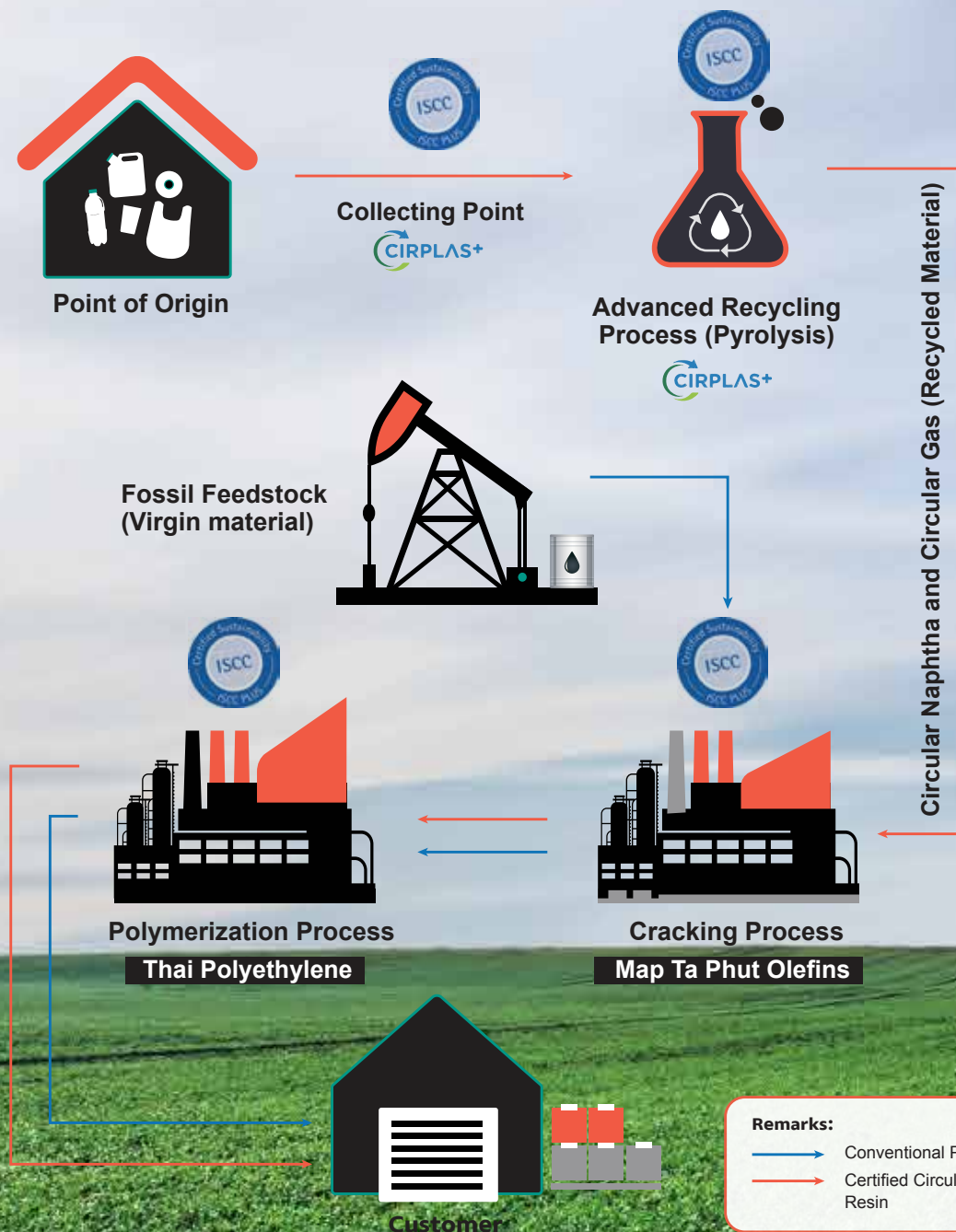
Black

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
PCRH01BN	Natural	Bottle, Gallon, Film	0,4	0,96	1.100	20	900	90	24
PCRH03BB	Black	Bottle, Gallon, Film	0,5	0,97	1.000	15	500	50	24

ADVANCED RECYCLING

This technology will convert post-consumer plastics that have been difficult to recycle into recycled feedstock, which will then be reproduced into recycled plastic resins of equivalent quality to virgin plastic resins. Moreover, Advanced Recycling technology will encourage the circular economy's effective use of resources and eliminate waste to landfills, leading to reduction of greenhouse gas emissions from waste burning.

SCGC is the first company in Thailand certified with the International Sustainability and Carbon Certification "ISCC PLUS" throughout whole supply chain, accelerating advancement of high-quality post-consumer recycled resins to meet ESG commitment.



**The Scope of ISCC Plus Certification
for Advanced Recycling**

ADVANCED RECYCLING



Grade	Recommended Application	Melt Flow Rate at 230°C/2.16kg	Density	Flexural Modulus	Tensile Strength at Break	Tensile Strength at Yield	Elongation at Break	Elongation at Yield	Notched Izod Impact
		ASTM D1238	ASTM 1505	ASTM D790	ASTM D638	ASTM D638	ASTM D638	ASTM D638	ASTM D256@23°C
		g/10 min	g/cm ³	MPa	MPa	MPa	%	%	J/m
AP400S	Yarn, Raffia, Monofilament	3,5	0,910	1.520	23	34	650	-	40
AP405F	BOPP Film	3,0	0,900	1.500	-	35	-	95	47
AP303S	Thermoforming	2,3	0,910	1.863	-	39	-	7	59
AP901J	Thin wall injection	60	0,910	1.569	-	35	-	-	38
AP601F	IPP Film	10	0,910	-	ASTM D882 MD : 300*, TD : 100*	-	-	ASTM D882 MD : 500*, TD : 100*	-
AP607F	Cast Film	7	0,910	1600**	ASTM D882 MD : 36.3**, TD : 8.82**	ASTM D882 MD : 28.4**, TD : 22.6**	ASTM D882 MD : 470**, TD : 20**	-	-
AP951J	Injection	28	0,910	1.176	19	29	-	-	50
AP842J	Injection	40	0,910	1.420	18	29	-	-	74
AP701J	General Purpose	12	0,910	1.520	20	38	650	-	34
AP705JM	Healthcare, Phamaceutical	12	0,910	1.422	-	31	650	-	29

Noted:

(*) Properties obtained from film produced on a pilot line at TPE, 35 micron, cooling water temperature 25 °C, MD = Machine Direction, TD = Transverse Direction

(**) Properties obtained from experiment on a pilot line, Film thickness 25 micron, MD = Machine Direction, TD = Transverse Direction



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