



Sunta
Chemical

Since 1996

消費後再生原料

Post-Consumer Recycled Plastic

WE PRODUCE.
WE RECYCLE.



塑膠原料分銷商

關於新達



新達化工於1996年成立，一家具創新及前瞻性的塑膠原料供應商，為客戶提供具國際認證的普通級和工程級塑膠原料。作為香港領先的塑膠供應商，新達不停為行業帶來創新科技，更率先與台塑化工合作，推出受國際認證的PCR環保材料。

什麼是 PCR?

PCR – Post-Consumer Recycled Plastic 消費後再生原料



PCR Post- Consumer Recycled plastics - 消費後再生塑料是一種用使用過的塑料消費品加工再做的環保塑料，製造過程會利用電腦，家電機殼塑料瓶或塑料包裝等等的消費品循環再用，是新一代的環保物料。PCR 對企業來說是一種新的可持續的解決方案，減低企業的碳排放量和碳足跡，不但能減少廢物，保護環境，更能為企業提升正面的聲譽，達致可持續發展。

塑料再生目的及好處

使用環保塑料能有效減少地球負擔（石油開採）、塑化原料生產與資源浪費，
降低環境污染達到循環經濟效益。



減少垃圾

Reduce Waste



減少碳排放和碳足跡

Reduce Carbon Emission & Footprint



環保塑料需求

Demand





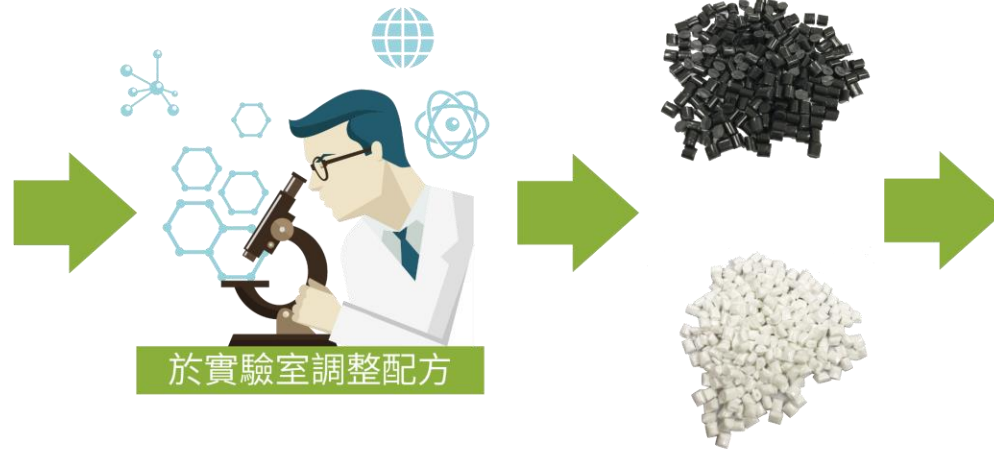
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FCFC PCR 生產過程



FCFC PCR 供應廠

新達化工與台化公司能為客戶提供一系列可客制化的PCR塑料，種類包括
PCR-ABS, PCR-HIPS, PCR-PC/ABS, PCR-PP and PCR-PC。



材料
ABS
HIPS
PC/ABS
PC
PP

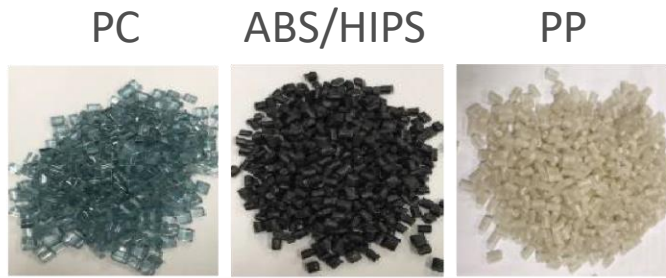
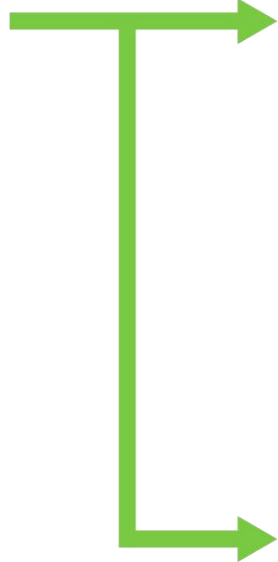


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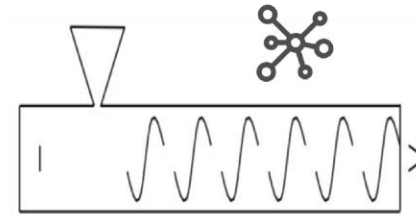
FCFC PCR 來源



粉碎、造粒



於新料中添加特定比
例之PCR膠粒。



PCR 清洗、粉碎、分類、造粒處理流程





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FCFC PCR 規格介紹

Product	Grade	Certificate	PCR %	Features	Key Properties
rABS	AF353R30	UL	30%	High flow	MFI: 30 g/10min Izod Impact: 15 kg-cm/cm
	AG15AR	---	30%	High flow	MFI: 24 g/10min Izod Impact: 18 kg-cm/cm
	AF353R50	UL	50 %	High flow	MFI: 27 g/10min Izod Impact: 13 kg-cm/cm
	AF358R	UL	85 %	High flow, high PCR(%)	MFI: 21 g/10min Izod Impact: 10 kg-cm/cm
rHIPS	HP825R	TÜV	30 %	High flow	MFI: 8 g/10min Izod Impact: 8.5 g/10min
	HP828R	UL	85 %	High flow, High PCR(%)	MFI: 6 g/10min Izod Impact: 7 kg-cm/cm
rPC/ABS	AC310R	TÜV	35 %	Flame retardant	MFI: 21 g/10min Izod Impact: 65 kg-cm/cm 1.5mm V0
rPC	AC381R	TÜV	30 %	Middle-Low flow, Flame retardant	MFI: 10 g/10min Izod Impact: 70 kg-cm/cm
	AC382R		50 %		
rPP	G3604	TÜV	30 %	Excellent impact strength	MFI: 3.4 g/10min Izod Impact: 56.3 kg-cm/cm

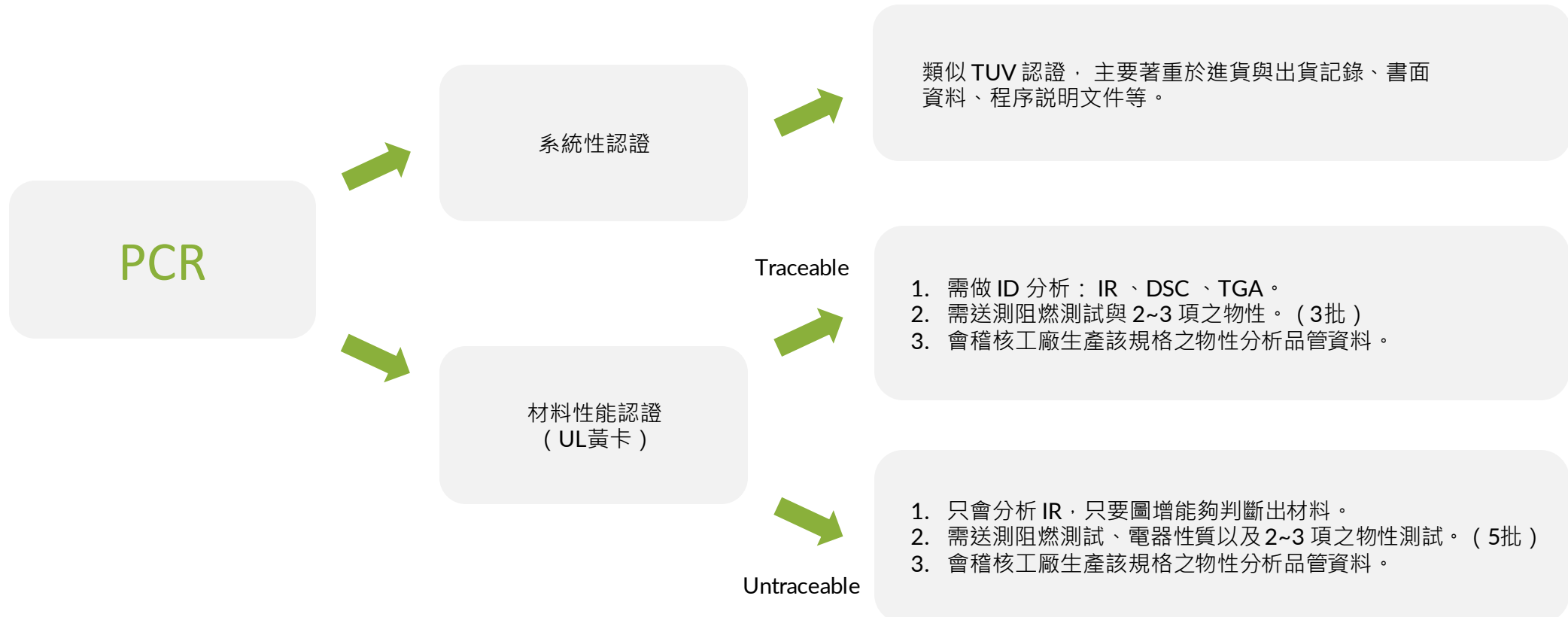
TÜV (德國萊茵): 塑膠再生料溯源驗證說明

書面相關文件	<ol style="list-style-type: none"> 1. PCR 來源證明文件。(再生料供應商、購料文件、出貨單、發票等) 2. 規格說明書(物性表)、規格編碼原則、RoHS分析結果。 3. 物料流向。(進貨量、生產量、銷售量等) 4. 製程說明文件。(生產作業流程圖、驗證之產品添加比例說明、質能平衡分析圖) 5. 程序說明文件。(PCR檢驗規範、分析儀器操作SOP、教育訓練等)
生產設備機台確認	含操作記錄、校正記錄、SOP規範等。



UL (優力國際): 塑膠再生料溯源驗證說明

備註:UL告知，若PCR之黃卡上要顯示出PCR之含量(%)，需要完成UL2809系統性認證。





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FCFC PCR 規格認證 (TÜV)

PCR GRADES

PCR Source (Certified)

Material	PCR(%)	Grade
ABS	50%	AF353R
HIPS	30%	HP825R
PC/ABS	35%	AC310R
PC	30%	AC381R
	50%	AC382R
	75%	AC382G
PP	30%	G3604



Certificate

Certificate no. TA 50489290 01

License Holder:
Formosa Chemicals & Fibre Corporation
201, Tung Hwa N. Rd.
Taipei 105
Taiwan, R.O.C.

Manufacturing Plant:
Formosa Chemicals & Fibre Corporation
No.1, Chung Yang Industrial Park,
Hsin-Kang County, Chiayi 616
Taiwan, R.O.C.

Test report no.: ZTW1-LWH 38488489 001 **Client Reference:** 002068053/J.L.
Tested to: ISO 14021:2016

Certified Product: Recycled ABS, HIPS, PC, PC/ABS alloy(r-PC/ABS) License Fee - Units

Type Designation: Recycled ABS pellets[AP353R],
Recycled HIPS pellets[HP825R], Recycled PC pellets[AC381R],
Recycled PC/ABS Alloy pellets[AC310R] Compliance and has
been verified in accordance with ISO 14021 Article 5.1
General, 7.7 Recyclable, 7.8 Recycled content.

Remark:
1. The post consumer recycled material rate of AP353R for
year 2020/4-2020/11 is 50%.
2. The post consumer recycled material rate of HP825R for
year 2020/4-2020/11 is 30%.
Continued on Page 02

Licensed Test mark:



TÜV Rheinland Taiwan Ltd
Signature



Dipl.-Ing. F. Stoelzer

Date of Issue
(day/month/year)

11/12/2020

TÜV Rheinland Taiwan Ltd, 11F, No 755, Sec. 4, Dada Rd., Songshan Dist., Taipei 105, Taiwan Tel: (886) 2172 7900, Fax: (886) 2172 1322





FCFC PCR 規格認證 (UL)

UL 認證

Material	PCR(%)	Grade
ABS	30%	AF353R30
	50%	AF353R50
	85%	AF358R
HIPS	35%	HP823R
	85%	HP825R

[Clear All Filters](#)

Already Applied Filters

- Certification 
- Recycled Content - Claim Validation 
- Standard Number 
- UL 2809 Environmental Claim Validation Procedure (ECVP) for Recycled Content 



AF353R30

FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV

Component - Plastics

Guide Information

FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV

201 TUNG HWA N RD, TAIPEI 105 TW

AF353R30

Acrylonitrile Butadiene Styrene (ABS), Recycled, furnished as pellets

<u>Color</u>	<u>Min. Thk (mm)</u>	<u>Flame Class</u>	<u>HWI</u>	<u>HAI</u>	<u>RTI Elec</u>	<u>RTI Imp</u>
ALL	1.5-1.7	HB	5	-	60	60

Component - Plastics

Guide Information

FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV

201 TUNG HWA N RD, TAIPEI 105 TW

AF353R50

Acrylonitrile Butadiene Styrene (ABS), Recycled, furnished as pellets

<u>Color</u>	<u>Min. Thk (mm)</u>	<u>Flame Class</u>	<u>HWI</u>	<u>HAI</u>	<u>RTI Elec</u>
ALL	1.5-1.7	HB	5	-	60

FCFC PCR 產品應用



**PCR ABS
PCR HIPS**



*This pallet is Eco-friendly made from
Recycled PP Resin*



**PCR ABS
PCR HIPS**

CIRCULAR ECONOMY



*This bag is Eco-friendly made from
20% Recycled PP Resin*



FCFC PCR 產品應用



PCR PC Source



PCR PC

PC/ABS & PCR PC



FCFC PCR 產品碳足跡資料

Carbon Emission Comparison

Virgin VS PCR

Product	PCR%	Grade	Emissions Tonne CO ₂ -e
PC/ABS	0%	AF353R	5.840
rPC/ABS	35%	HP825R	3.912
ABS	0%	AC310R	4.177
rABS	30%	AC381R	3.095
	50%	AC382R	2.374

FORMOSA CHEMICALS & FIBRE CORP.
201, Tung Hwa N. Road Taipei, Taiwan
Fax: +886-2-27131649 Tel: +886-2-27122211

Product Declaration

June 17, 2022

Dear Sirs:


We hereby declare the product carbon footprint of per tonne listed below:

Product	Grade	PCR%	*Emissions Tonne CO ₂ -e
rABS	AF353R30	30%	3.095
	AF353R50	50%	2.374
ABS	-	0%	4.177

*Per tonne pellets without packaging

If you have any question, please feel free contact me.

Sincerely Yours,
R & D Department
Plastics Division



43% less carbon emission

FORMOSA CHEMICALS & FIBRE CORP.
201, Tung Hwa N. Road Taipei, Taiwan
Fax: +886-2-27131649 Tel: +886-2-27122211

Product Declaration

June 16, 2022

Dear Sirs:


We hereby declare the product carbon footprint of per tonne listed below:

Product	Grade	PCR%	*Emissions Tonne CO ₂ -e
rPC/ABS	AC310R	35%	3.912
PC/ABS	AC3100	0%	5.840

*Per tonne pellets without packaging

If you have any question, please feel free contact me.

Sincerely Yours,
R & D Department
Plastics Division



33% less carbon emission




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FCFC PCR CO₂ Emission

HIPS

PC

PP

 **FORMOSA CHEMICALS & FIBRE CORP.**
201, Tung Hwa N. Road Taipei, Taiwan
Fax: +886-2-27131649 Tel: +886-2-27122211

Product Declaration

August 19, 2022

Dear Sirs:


We hereby declare the product carbon footprint of per tonne listed below:

Product		PCR%	*Emissions Tonne CO ₂ -e
rHIPS	HP825R		2.278
	HP828R		0.905
HIPS		0%	3.027


*Per tonne pellets without packagin

If you have any question, please feel free contact me.

Sincerely Yours,
R & D Department
Plastics Division



70% less carbon emission

 **FORMOSA CHEMICALS & FIBRE CORP.**
201, Tung Hwa N. Road Taipei, Taiwan
Fax: +886-2-27131649 Tel: +886-2-27122211

Product Declaration

May 26, 2022

Dear Sirs:


We hereby declare the product carbon footprint of per tonne listed below:

Product		PCR%	*Emissions Tonne CO ₂ -e
rPC	AC38	30%	4.734
PC		0%	6.553


*Per tonne pellets without packagin

If you have any question, please feel free contact me.

Sincerely Yours,
R & D Department
Plastics Division



27% less carbon emission

 **FORMOSA CHEMICALS & FIBRE CORP.**
201, Tung Hwa N. Road Taipei, Taiwan
Fax: +886-2-27131649 Tel: +886-2-27122211

Product Declaration

August 19, 2022

Dear Sirs:


We hereby declare the product carbon footprint of per tonne listed below:

Product		PCR%	*Emissions Tonne CO ₂ -e
rPP	G36	30%	1.754
PP		0%	2.283

*Per tonne pellets without packagin

If you have any question, please feel free contact me.

Sincerely Yours,
R & D Department
Plastics Division

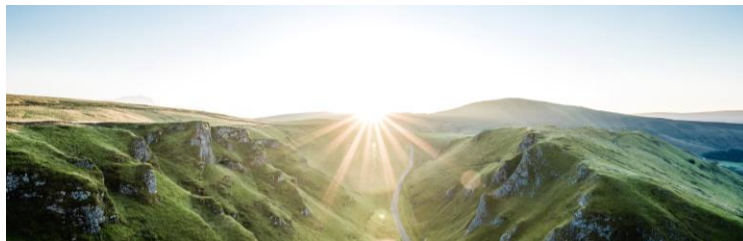


23% less carbon emission

FCFC PCR 規格認證進度

Material	PCR(%)	Grade
PC/ABS+Talc	30%	AC325R
PC/ABS	50%	AC330R50
PC	50%, 80%, 97%	AC28R(y)
HIPS	35%	HP823R

目前這些規格已經在認證中



Environment



Society

FCFC PCR Product Vision

為地球盡一份心力

1. PCR%
2. 降低環境污染
3. 符合環保要求



台化塑膠部技術

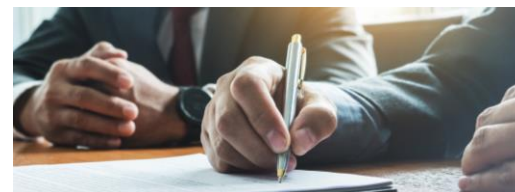
實驗室先提供樣品供客戶測試。

1. 回收料來源收集
2. 配方調整
3. 物性測試
4. 於實驗室先打樣供客戶測試



PCR 認證

- UL
- TÜV
- RoHS



共同創造雙贏！

- 社會責任
- 降低環境污染
- 循環經濟



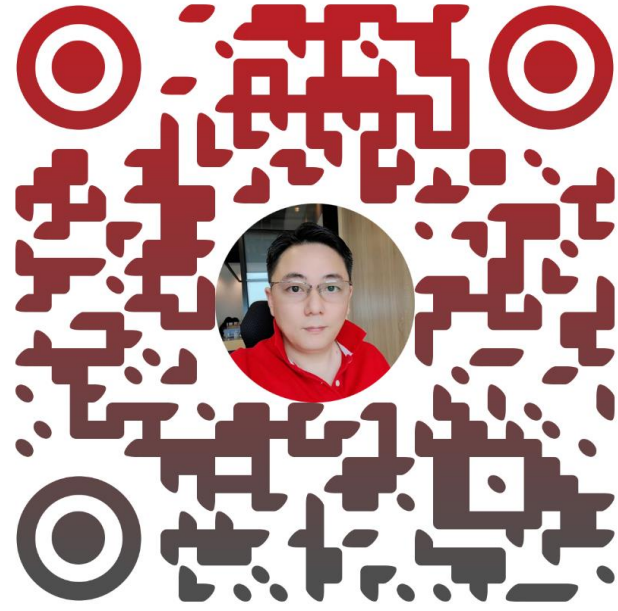


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譚樊翠華女士

新達化工有限公司
創辦人



陳臻路先生

新達化工有限公司
總經理(國內)





Thank You

Let's create a
cleaner
environment
together !

