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“

Good innovation makes greater things for everyone along with maintaining coexistence balance between human and environment.
We will carry out the sustainable solution.

”



IRPC Public Company Limited is Southeast Asia's integrated petrochemical pioneer. The Company operates a refinery and petrochemical complex in Rayong. Its main facilities are located within the IRPC Industrial Park, which features the infrastructure needed for its business, including a deep-sea port, an oil depot, and a power plant



Petrochemical Business

POLIMAXX is a brand of IRPC Petrochemical product line, with capability of producing HDPE, PP, UHMW-PE, ABS, SAN, PS, and EPS. IRPC endeavors to stay abreast on global environmental and technological changes through research and development of new products, e.g. paralene from natural ingredients, recycled compound resin, and acetylene black for Li- ion batteries (Pim-L and Pim-AL). Furthermore, IRPC has pioneered a closed loop production in the Eco Solution project to ensure that no waste would get out of the loop and become a burden to our society and to our fragile environment.



Petroleum Business

The petroleum product line of IRPC is classified into 3 groups: Petroleum Fuel Products, Lube Base Oil, and related products, as well as Aromatic Products.



Supporting Businesses

The Supporting businesses of the company are as follows:

- Power and Public Utilities
- Port and Tank Services
- Asset Management Business



Make Greater Things

Among a diverse range of our product lines, all polymer and petrochemical products would be under the common “POLIMAXX” branding. We, have strategically planned to initiate hybrid marketing, focusing on offering our quality products, and one-stop service solution to our customers. We created POLIMAXX with the intention to “Focus on petrochemical research and development to deliver solutions for customers’ ever-changing needs in the future”.

POLIMAXX is a brand of IRPC Petrochemical product line. Since IRPC Public Company Limited establishment in 1982, few suppliers in the region has been doing manufacture multiple types of polymer and petrochemical products in-house. Now, over 30 years have passed, while IRPC remain as strongly dedicated to research and develop as ever, to remain on top of rapid changes of market requirements.



A product line, focusing on life and health.



A product line, focusing on performance and durability.



A product line, focusing on environment and sustainability.



ABS | Acrylonitrile Butadiene Styrene

GRADE	MFR (220°C/10 kg) ASTM D1238 (g/10 min)	Izod Notched (6.4 mm, 23°C) ASTM D256 (kgf-cm/cm)	Flexural Modulus (1% Secant, 2.5 mm/min) ASTM D790 (kgf/cm ²)	HDT (6.4 mm, 18.6 kgf/cm ²) ASTM D648 (°C)	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Injection Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	

Extrusion Sheet																
SR301 ^C	6.0	26	23,000	85	HB (1.5)										•	Appliance & Electronic Parts
SR302 ^C	6.0	26	23,000	85	HB (1.5)										•	Appliance & Electronic Parts
SR305 ^C	6.0	26	23,000	85	HB (1.5)										•	Appliance & Electronic Parts
SR401 ^C	6.0	28	23,000	85	HB (1.5)										•	Appliance & Electronic Parts
SR101	7.0	35	22,000	86	HB (1.5)										•	Appliance & Electronic Parts, Interior Parts
Flame Retardant																
AN620	22	18	25,000	75	V-0 (1.5)										•	Appliance & Electronic Parts
General																
GA800	20	26	25,000	86	HB (1.5)										•	/ Appliance & Electronic Parts, Interior Parts, Household, Toys
GA850	20	26	25,000	86	HB (1.5)										•	/ Appliance & Electronic Parts, Household, Toys
GA300	30	24	24,000	85	HB (1.5)										•	Appliance & Electronic Parts, Sanitary ware
GA400	45	18	24,000	85	HB (1.5)										•	Appliance & Electronic Parts, Sanitary ware
High Heat																
KU650 ^C	1.8	14	21,000	113	HB (1.5)										•	Appliance & Electronic Parts
KU200 ^C	6.0	21	22,000	97	HB (1.5)										•	Appliance & Electronic Parts, Interior Parts
KU200W	6.0	21	22,000	97	HB (1.5)										•	Appliance & Electronic Parts, Exterior Parts, Interior Parts
KU901	6.0	13	24,000	104	HB (1.5)										•	Appliance & Electronic Parts, Exterior Parts, Interior Parts
High Impact																
SP100	18	35	22,000	85	HB (1.5)										•	/ Appliance & Electronic Parts, Household, Toys
SP100W(A)	18	35	22,000	85	HB (1.5)										•	Appliance & Electronic Parts, Interior Parts
SP200	18	35	22,000	85	HB (1.5)										•	Appliance & Electronic Parts, Interior Parts
Metal Plating																
AP102	20	26	23,500	85	HB (1.5)										•	Appliance & Electronic Parts, Exterior Parts, Interior Parts

^C Color Compound Only

ABS Compound | Acrylonitrile Butadiene Styrene Compound

Glass Fiber Compound																
GA800 GA4	8.0	6.3	56,000	99											•	Water Meter
Color Compound																
ABS Color	Further information, please contact IRPC's Sales representative.															Appliance & Electronic Parts, Exterior Parts, Interior Parts

- = Recommended
- ▲ = Applicable
- *Comply with food contact US FDA 21 and EU 10/2011

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ABS Powder | Acrylonitrile Butadiene Styrene Powder

GRADE	PROCESSING										INDUSTRY
	Additive Adhesive	Additive Color Pigment	Additive Conductivity	Additive Impact Modifier	Additive Impact Modifier (ABS Compound)	Additive Impact Modifier (PC/ABS Compound)	Additive Impact Modifier (PVC)	Additive Lube Lubricant	Additive Processing Aid	Comply with food contact*	

AP4500	Further information, please contact IRPC's Sales representative.				▲	▲	●	▲				Additives
AP5000H	Further information, please contact IRPC's Sales representative.				●	●		▲				Additives
AP6007	Further information, please contact IRPC's Sales representative.				●	●		●				Additives

PE Wax | Polyethylene Wax

GRADE	PROCESSING										INDUSTRY
	Additive Adhesive	Additive Candle	Additive Color Pigment	Additive Conductivity	Additive Impact Modifier	Additive Lube Lubricant	Additive Pigment Dispersion	Additive Plastic Lubricant	Additive Processing Aid	Comply with food contact*	

PE Wax	Further information, please contact IRPC's Sales representative.											Additives
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GRADE	Further information, please contact IRPC's Sales representative.	Additive Color Pigment	Additive Conductivity (Dry Cell)	Additive Conductivity (ESD/Semiconductor)	Additive Conductivity (Lead Battery)	Additive Conductivity (Lithium Battery)	Additive Conductivity (Roof Coating)	Additive Conductivity (Tire Bladder/Rubber)	Additive Lube Lubricant	Additive Processing Aid	Comply with food contact*	INDUSTRY
AB50	Further information, please contact IRPC's Sales representative.		•									Dry Cell
AB50P	Further information, please contact IRPC's Sales representative.	▲	▲	•		•	•	•				Tire Bladder, Rubber Compound, Color Compound, Lubricant
PIM-AL	Further information, please contact IRPC's Sales representative.				•							Lead Battery
PIM-L	Further information, please contact IRPC's Sales representative.					•						Lithium Battery



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AS/SAN | Acrylonitrile Styrene

GRADE	MFR (200°C/5 kg) ASTM D1238 (g/10 min)	Izod Notched (6.4 mm, 23°C) ASTM D256 (kgf-cm/cm)	HDT (3.2 mm, 18.6 kgf/cm ²) ASTM D648 (°C)	COLOR	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Extrusion Pipe/Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	
General																
120PC	2.8	3.2	81	Natural										•	/	Exterior Parts, Interior Parts, Household
121PC	2.8	3.2	81	Blue	HB (1.5)									•	/	Appliance & Electronic Parts, Exterior & Interior Parts, Household
129PC	2.8	3.2	81	Slightly Blue										•	/	Household, Stationery
High Flow																
149PC	5.0	3.0	85	Slightly Blue										•		Exterior Parts, Interior Parts
Compound Grade																
AS103	2.8			Natural										•		Compound
250PC	6.0			Natural										•		Compound
280PC	9.0			Natural										•		Compound
210HF	13			Natural										•		Compound
High Chemical Resistance																
308PC	1.6	3.6	88	Natural										•		Lighter
320PC	1.9	3.4	86	Natural	HB (1.5)									•		Appliance & Electronic Parts, Lighter

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EPS | Expandable Polystyrene

GRADE	Bead Size Diameter (mm)	Molding Density Range (g/l)	Silo Time (hr)	Flammability (E132283) UL94 (Thickness, mm)	Flame Retardants DIN 4102-1 (Class)	PROCESSING										INDUSTRY	
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Extruded XPS	Injection Molding	Injection Stretch Blow Molding	Shape Molding	Comply with food contact*			
Standard																	
291L	1.00 - 1.60	14-25	6-12													• /	EPS Packaging & Cushion
321F	0.63 - 1.12	16-25	6-12													• /	EPS Packaging & Cushion
361F	0.40 - 0.90	18-30	6-12													• /	EPS Packaging & Cushion
526W	0.20 - 0.63	25-50	6-12													• /	EPS Packaging & Cushion
Self Extinguish (Flame retardant: non-HBCD type)																	
255E	1.00 - 1.60	16-25	6-18		B2											•	Foam Insulation
355E	0.63 - 1.12	18-30	6-18		B2											•	Foam Insulation
455E	0.30 - 0.80	25-50	6-18		B2											•	Foam Insulation
277E	1.00 - 1.60	16-25	6-18	HF-1 (6.5)	B1											•	Foam Insulation
377E	0.63 - 1.12	18-30	6-18	HF-1 (6.5)	B1											•	Foam Insulation
477E	0.30 - 0.80	25-50	6-18	HF-1 (6.5)	B1											•	Foam Insulation

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HDPE | High Density Polyethylene

GRADE	MFR (190 °C/2.16 kg) ASTM D1238 (g/10 min)	Density ASTM D792 (g/cm ³)	ESCR (Condition B, F50) ASTM D1693 (hr)	Hardness ASTM D2240 (Shore D)	Vicat Softening (3.2 mm, 10 N, 50 °C/h) ASTM D1525 (°C)	PROCESSING										INDUSTRY		
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Extrusion Pipe	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*			
R1760	6.0	0.957	9	65	125	•											/	Household, Container and Pail, Caps and Closures
V1160	15	0.957	3	65	125	•											/	Household, Container and Pail, Caps and Closures

PE Compound | Polyethylene Compound

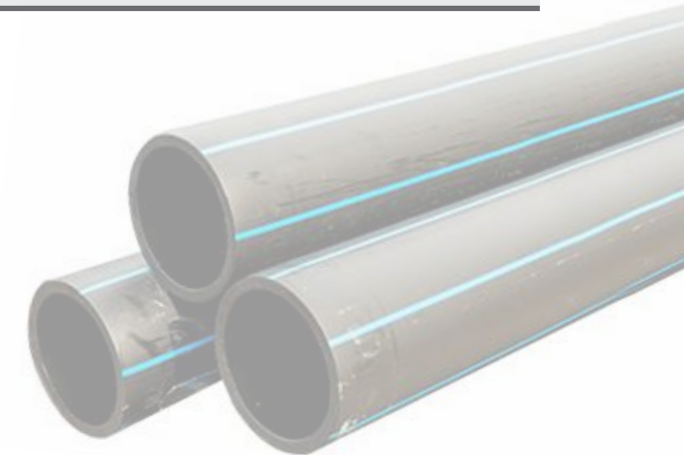
GRADE	MFR (190 °C/5 kg) ISO 1133 (g/10 min)	Density ISO 1183 (g/cm ³)	ESCR (Condition B, F50) ASTM D1693 (hr)	Color	Special Property	PROCESSING										INDUSTRY		
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Extrusion Pipe	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*			
HDPE Pipe																		
P901BL	0.25	0.950	≥10,000	Blue														HDPE Pipe
P901BK	0.25	0.959	≥10,000	Black	PE100													HDPE Pipe
P901BK-LS	0.25	0.959	≥10,000	Black	PE100 - Low Sagging													HDPE Pipe
P901BK-SP	0.25	0.959	≥10,000	Black	PE100 - Marine Pipe													HDPE Pipe
P901BK-CR	0.25	0.959	≥10,000	Black	PE100 - Chlorine Resistance													HDPE Pipe
HDPE Cable Sheath																		
P702BK	1.50	0.968	≥1,000	Black														Cable Sheath
HDPE Floating Solar																		
P301GR	0.35	0.958	≥5,000	Gray	UV Resistance	•												Floating Solar Pontoon

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PP HOMO | Polypropylene Homopolymer

GRADE	MFR (230°C/2.16 kg) ASTM D1238 (g/10 min)	Izod Notched (3.2 mm, 23°C) ASTM D256 (J/m)	Flexural Modulus (1% SECANT, 13 mm/min) ASTM D790 (MPa)	HDT (3.2 mm, 0.455 MPa) ASTM D648 (°C)	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Injection Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	
B1101	0.9	60	1,600	110		•	•					•			/	EBM, Thermoforming
1102H	2.0	45	1,600	110		•	•					•	▲		/	Stationery, EBM, Thermoforming
1140H	2.0	45	1,850	120		•	•					•	▲		/	EBM, Thermoforming
1150H	2.2	56	2,000	125		•	•					•	▲		/	EBM, Thermoforming
1202J	3.0	55	1,700	110						•			▲		/	Fishing Nets, Raffia & Filament
FL203D	3.0	35	1,550	95						•	▲				/	BOPP Film
K1104	3.5	45	1,600	110										•	/	Household
S1003	3.5	45	1,600	110						•				•	/	Fishing Nets, Raffia & Filament
1102K	4.0	45	1,600	110	HB (1.5)					•				•	/	Fishing Nets, Appliance & Electronic Parts, Raffia & Filament
1032L	5.0	42	1,600	110						•				•	/	Fishing Nets, Raffia & Filament
1100NK	11	35	1,500	110	HB (1.5)				▲	•	▲			•	/	Appliance & Electronic Parts, Interior Parts, Household
1120NK	11	32	1,600	110					•	•					/	Water-quenched Blown Film
1125NA	11	36	1,250	100					•	•					/	CPP Film
1126NK	11	33	1,550	105					•	•					/	Water-quenched Blown Film
K1111	11	34	1,300	100										•	/	Household
1100PK	15	31	1,500	110							▲			•	/	Household, Furniture
1100RC	20	28	1,500	110	HB (1.5)						▲			•	/	Appliance & Electronic Parts, Household, Furniture
1111R	20	22	1,900	129	HB (1.5)									•	/	Appliance & Electronic Parts, Household, Furniture
1105RC	25	28	1,400	105						•				•	/	Spunbond, Hygiene Fabric, Raffia & Filament
1100S	30	27	1,500	110							▲			•	/	Interior Part, Household, Furniture
1105SC	35	27	1,400	105						•				•	/	Spunbond, Hygiene Fabric, Raffia & Filament
1140U	60	27	1,750	120										•	/	TWIM
1140VC	75	25	1,750	120										•	/	TWIM
1100XC	800										•				/	Filter, Meltblown, Hygiene Fabric
1100YC	1,200										•				/	Filter, Meltblown, Hygiene Fabric
1100ZC	1,500										•				/	Filter, Meltblown, Hygiene Fabric
1100ZXC	1,800										•				/	Filter, Meltblown, Hygiene Fabric

EBM = Extrusion Blow Molding
 BOPP = Biaxially Oriented Polypropylene
 CPP = Cast Polypropylene
 TWIM = Thin Wall Injection Molding

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PP IMPACT COPO | Polypropylene Impact Copolymer

GRADE	MFR (230°C/2.16 kg) ASTM D1238 (g/10 min)	Izod Notched (3.2 mm, 23°C) ASTM D256 (J/m)	Flexural Modulus (1% Secant, 1.3 mm/min) ASTM D790 (MPa)	HDT (3.2 mm, 0.455 MPa) ASTM D648 (°C)	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Injection Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	
2500H	2.0	Not Break	1,100	92		▲	•	▲				•	▲	/	Exterior Parts, Interior Parts, Stationery, Thermoforming	
2300K	4.0	140	1,200	98	HB (1.5)	▲							•	/	Appliance & Electronic Parts, Household, Container and Pail	
2500M	8.0	180	1,130	92									•	/	Household, Container and Pail	
BC3NSW	9.0	155	1,300	105									•		Exterior Parts, Interior Parts	
2300NC	10	140	1,200	98	HB (1.5)								•	/	Appliance & Electronic Parts, Interior Parts, Household	
2300NCA	10	150	1,450	115	HB (1.5)								•		Appliance & Electronic Parts, Battery Cases	
2100N	11	80	1,300	100									•	/	Household, Container and Pail	
2500PC	15	130	1,130	92	HB (1.5)								•	/	Appliance & Electronic Parts, Interior Parts, Household	
BC03B	30	80	1,200	105	HB (1.5)								•	/	Appliance & Electronic Parts, Interior Parts, Household	
BC03BS	30	80	1,200	105									•	/	Appliance & Electronic Parts	
BC03BSW	30	80	1,200	105									•	/	Exterior Parts, Interior Parts	
BC05B	50	75	1,200	105	HB (1.5)								•	/	Appliance & Electronic Parts, Exterior Parts, Interior Parts	

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PP RANDOM COPO | Polypropylene Random Copolymer

GRADE	MFR (230°C/2.16 kg) ASTM D1238 (g/10 min)	Izod Notched (3.2 mm, 23°C) ASTM D256 (J/m)	Flexural Modulus (1% SECANT, 1.3 mm/min) ASTM D790 (MPa)	HDT (3.2 mm, 0.455 MPa) ASTM D648 (°C)	HAZE (1 mm) ASTM D1003 (%)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Extrusion Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	
3340H	2.0	230	950	83	8	•					•	▲	/	EBM, Thermoforming		
3340HMD	2.0	250	850	83	8	•					•		/	Medical Devices		
3325M	10	25	850	75				•					/	CPP Film		
K4510B	10	70	1,150	85	8							•	▲	Household, Caps and Closures		
K4510ET	10	70	1,150	85	8							•	•	Medical Devices		
MX02HGR	20	50	1,150	80	8							•		Medical Devices		
3375RM	24	56	750	76					•				/	Laminate Coating		
K4520UB	25	45	1,280	85	4							•		Household, Caps and Closures		
K4527ET	27	50	1,150	80	8							•		Medical Devices		
K4527GR	27	50	1,150	80	8							•		Medical Devices		
K4527B	30	50	1,150	85	8							•		Appliance & Electronic Parts, Household, Caps and Closures		
3375SM	35	45	750	76					•				/	Laminate Coating		
3380SM	35	35	720	70					•				/	Laminate Coating		

PP TPO | Polypropylene Thermoplastic Polyolefin

GRADE	MFR (230°C/2.16 kg) ASTM D1238 (g/10 min)	Izod Notched (3.2 mm, 23°C) ASTM D256 (J/m)	Flexural Modulus (1% SECANT, 1.3 mm/min) ASTM D790 (MPa)	HDT (3.2 mm, 0.455 MPa) ASTM D648 (°C)	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Extrusion Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	
NBC03HRA	30	320	960	94									•	Interior Parts		

EBM = Extrusion Blow Molding

CPP = Cast Polypropylene

• = Recommended

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PP Compound | Polypropylene Compound

GRADE	MFR (230°C/2.16 kg) ASTM D1238 (g/10 min)	Izod Notched (3.2 mm, 23°C) ASTM D256 (kgf-cm/cm)	Flexural Modulus (1% Secant, 1.3 mm/min) ASTM D790 (kgf/cm ²)	HDT (3.2 mm, 4.6 kgf/cm ²) ASTM D648 (°C)	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Filament	Extrusion Lamination	Extrusion Sheet	Injection Molding	Injection Stretch Blow Molding	Comply with food contact*	
PP Talcum Compound																
1111NXTA4	11	3	37,000	142									•	Interior Parts		
1111NXTA8	10	2.2	75,000	147									•	Interior Parts		
2311KXTA4	4.5	4.8	31,000	140									•	Interior Parts		
2311LCXTA6	6.0	4.7	39,000	143									•	Interior Parts		
2311NCXTA4	11	4.7	27,000	138									•	Interior Parts		
2311SCXTA4	30	3.3	27,000	138									•	Interior Parts		
2511PCXTA6	13	5	36,000	140									•	Interior Parts		
2563PCXTA6	13	5	33,000	140									•	Exterior Parts, Interior Parts		
PP Glass Fiber Compound																
1111NXGA6	4.0	5.5	85,000	161									•	Exterior Parts		
2311LCXGA4	3.0	6.6	47,000	158									•	Exterior Parts		
2511HXGA5	1.1	20.5	49,000	159									•	Exterior Parts		
PP Flame Retardant																
1196NN	13.5	4.5	22,000	130	V2 (1.5)								•	Appliance & Electronic Parts		
Color Compound																
PP Color	Further information, please contact IRPC's Sales representative.												Appliance & Electronic Parts, Exterior Parts, Interior Parts			

• = Recommended

▲ = Applicable

*Comply with food contact US FDA 21 and EU 10/2011

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PS (GPPS/HIPS) | Polystyrene (General Purpose/High Impact)

GRADE	MFR (200°C/5 kg) ASTM D1238 (g/10 min)	Izod Notched (6.4 mm, 23°C) ASTM D256 (kgf-cm/cm)	Flexural Modulus (E-Modulus, 1.3 mm/min) ASTM D790 (kgf/cm ²)	HDT (3.2 mm, 18.6 kgf/cm ²) ASTM D648 (°C)	Flammability (E132283) UL94 (Thickness, mm)	PROCESSING										INDUSTRY	
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Extrude XPS	Injection Sheet	Injection Molding	Injection Stretch Blow Molding	Shape Molding	Comply with food contact*		
GPPS																	
GP110	2.0	2.2	33,000	94	HB (1.5)								•	•	▲	/	Appliance & Electronic Parts, Thermoforming
GP112	2.7	2.2	33,000	94									•	•	▲	/	Thermoforming
GP130	3.2	2.2	33,000	94	HB (1.5)										•	/	Appliance & Electronic Parts
GP150	8.0	2.2	33,000	93	HB (1.5)										•	/	Appliance & Electronic Parts, Household
HIPS																	
HI830	2.5	14	23,000	90	HB (1.5)								•	▲		/	Appliance & Electronic Parts, Thermoforming
HI650	8.0	11	24,000	89	HB (1.5)									•		/	Appliance & Electronic Parts, Household, Stationery ware

PS Compound | Polystyrene Compound

GRADE	MFR (200°C/5 kg) ASTM D1238 (g/10 min)	Izod Notched (3.2 mm, 23°C) ASTM D256 (kgf-cm/cm)	Flexural Modulus (E-Modulus, 1.3 mm/min) ASTM D790 (kgf/cm ²)	HDT (3.2 mm, 18.6 kgf/cm ²) ASTM D648 (°C)	Surface Resistivity ASTM D257 (ohm/sq)	PROCESSING										INDUSTRY	
						Compression Molding	Extrusion Blow Molding	Extrusion Blown Film	Extrusion Cast Film	Extrusion Extrude XPS	Injection Sheet	Injection Molding	Injection Stretch Blow Molding	Shape Molding	Comply with food contact*		
Bio-Base Compound																	
PK150B20	7.0		33,000												•		Household
PS Conductive Compound																	
SC210BKC	1.25	6.0	18,000		10 ³ - 10 ⁴										•		Appliance & Electronic Parts
SC430BKC	0.85	12	17,000		10 ³ - 10 ⁴										•		Appliance & Electronic Parts
Color Compound																	
PS Color	Further information, please contact IRPC's Sales representative.																Appliance & Electronic Parts

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UHMWPE | Ultra High Molecular Weight Polyethylene

GRADE	Average Mw Margolies equation (10 ⁶ g/mol)	Average Partide Size Laser Scattering (µm)	Intrinsic Viscosity ISO 1628-3 (dl/g)	Density ISO 1183 (g/cm ³)	Bulk Density ISO 60 (g/cm ³)	PROCESSING										INDUSTRY			
						Calendarling Battery Sheet	Compression Molding	Extrusion Cast Film	Extrusion Filament	Extrusion Pipe/Sheet	Extrusion Ram	Gel Spinning	Injection Molding	Sintering	Comply with food contact*				
U311	3.9	130	17.6	0.93	≥0.40	•											/	Rod-Sheet (UHMWPE)	
U321	3.9	200	17.6	0.93	≥0.40	•											/	Rod-Sheet (UHMWPE)	
U511H	5.8	130	23.1	0.92	≥0.40	•											/	Rod-Sheet (UHMWPE)	
U511R	5.8	130	20.7	0.93	≥0.40	•											/	Rod-Sheet (UHMWPE)	
U521	5.8	200	20.7	0.93	≥0.40	•											/	Rod-Sheet (UHMWPE)	
U711	7.8	130	28.3	0.92	≥0.40	•											/	Rod-Sheet (UHMWPE)	
H611LB	0.6	110	5.2	0.95	≥0.40	•	•											Battery Seperator	
U510B	5.8	130	23.1	0.93	≥0.40	•												Battery Seperator	
U710B	7.8	130	28.3	0.93	≥0.40	•												Battery Seperator	
U310T	4.9	150	20.7	0.92	≥0.40	•												Sport Application	
U510FW	5.5	125	23.0	0.93	≥0.40												•	/	Filter
U711FB	6.9	130	26.0	0.93	≥0.40													•	Fishing Nets, Bulletproof Vest
U810FB	8.7	130	30.4	0.93	≥0.40													•	Fishing Nets, Bulletproof Vest



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