A new and better choice for your PPS compounds

Sciengy New Materials

POLYPHENLENE SULFIDE (PPS) PROFESSIONAL MANUFACTURER

Sciengy

www.sciengy.com

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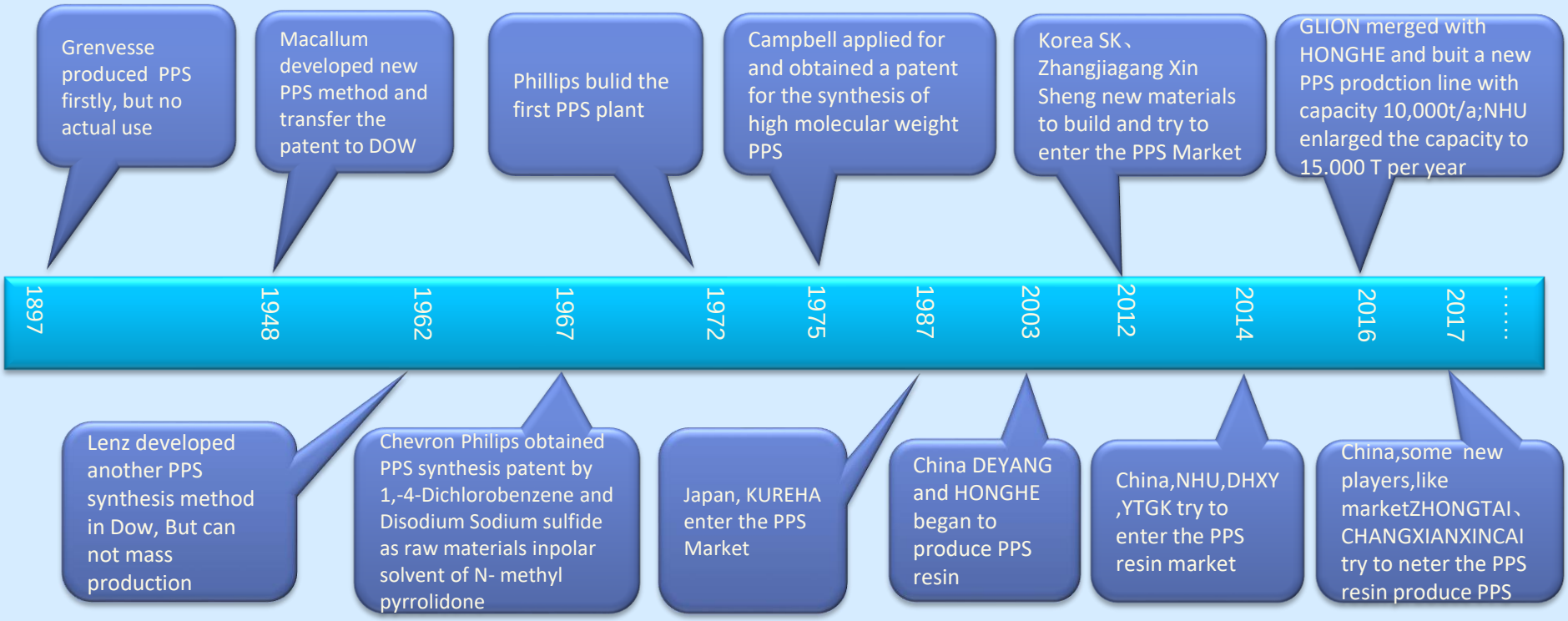
Introduction of PPS

-Development history of PPS base polymer



China entered the PPS market booming development stage since 2014, with the successful commissioning of the NHU 5000 ton per year PPS resin production

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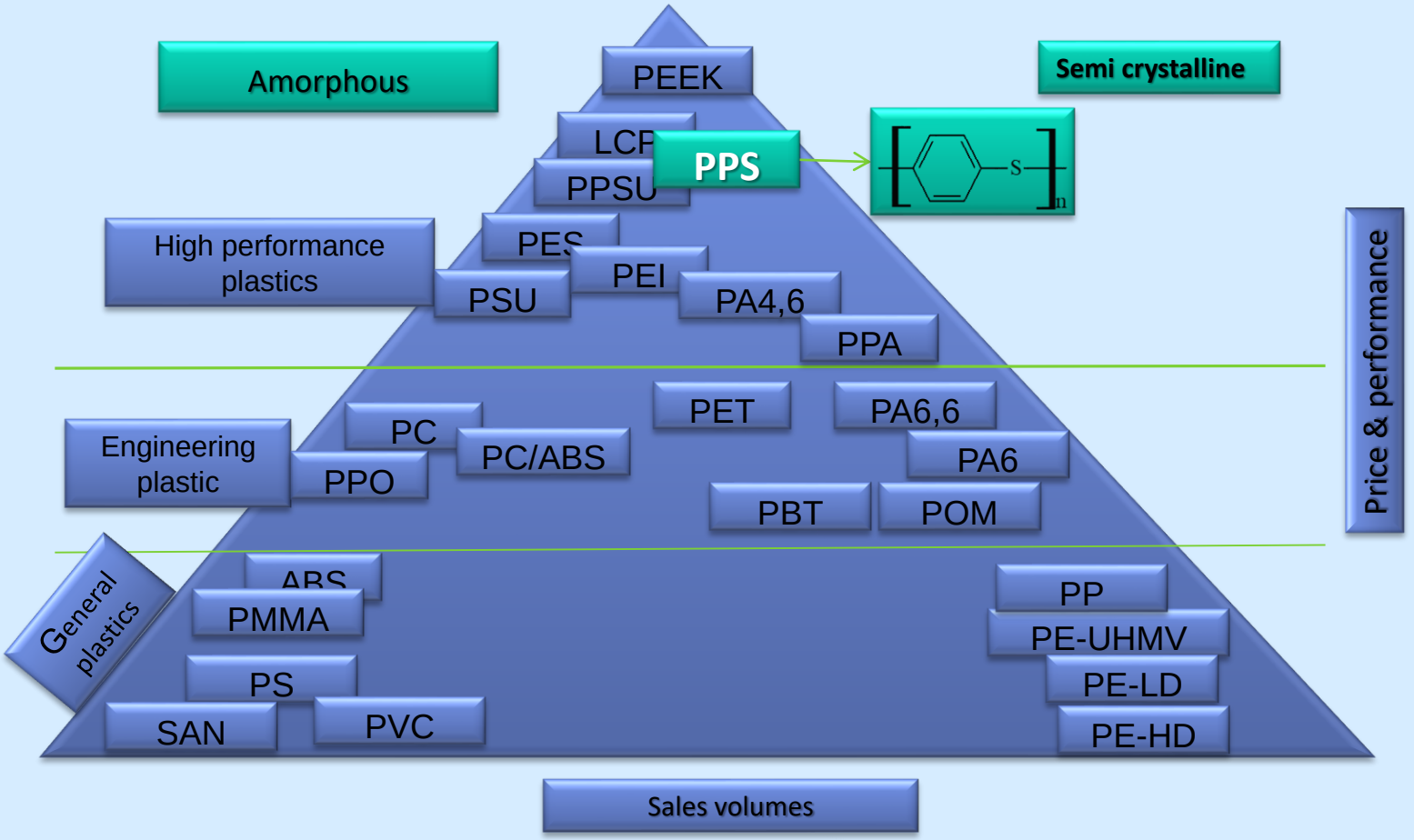
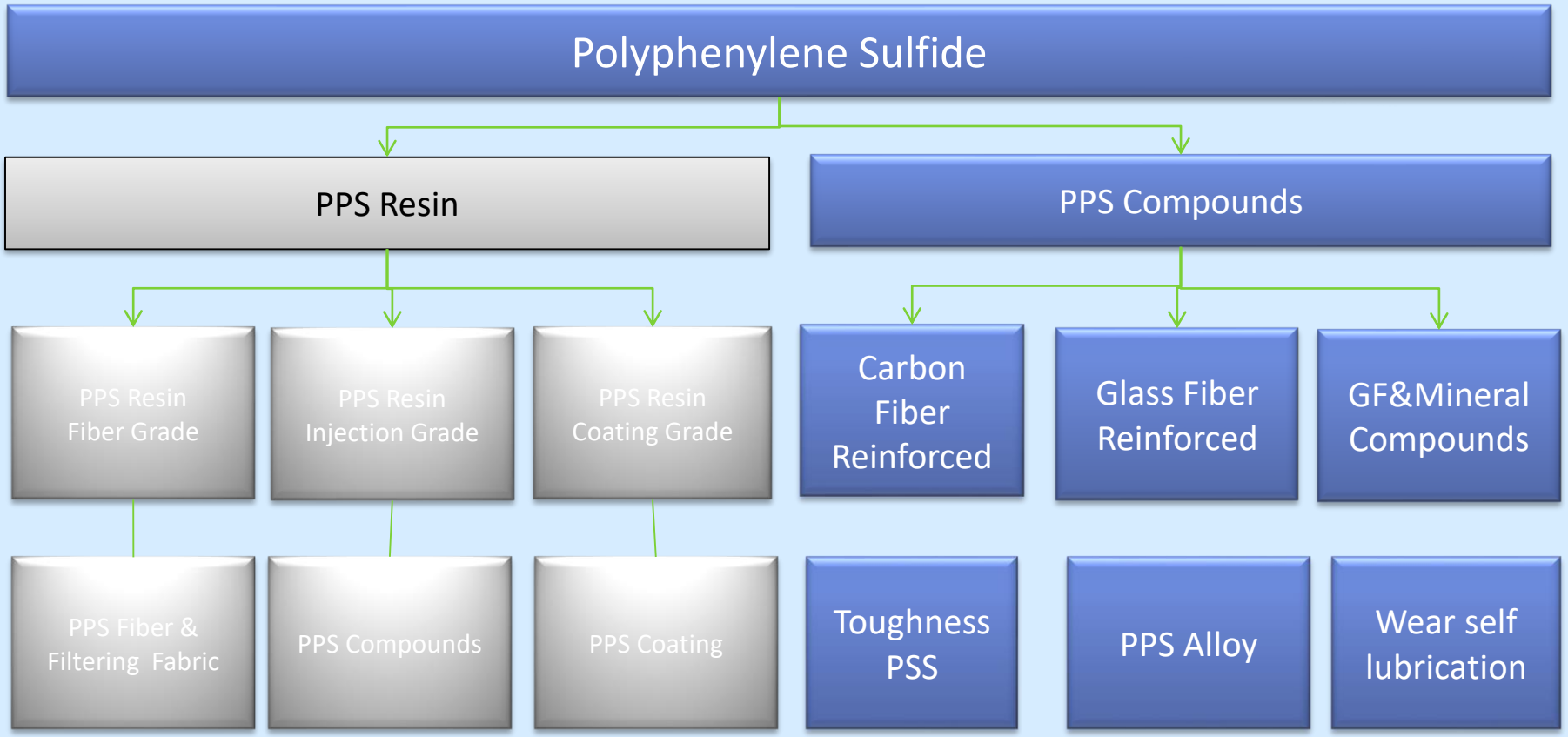
Introduction of PPS

-The world's largest specialty engineering plastics



Introduction of PPS

–PPS application structure diagram



Competition PPS market

-Major international PPS resin competitors

Nationality	Factory	Type	Brand	Productivity（t/a)	Remark
USA	Chevron-Phillips Chemical	Crosslinked& Linear	Ryton	20000	Was sold to Solvay
USA	Fortron Industries	Crosslinked& Linear	Fortron	15000	Joint venture between KUREHA and Celanese
Japan	Toray Industries	Crosslinked& Linear	Torelina	27600	
Japan	Kureha Chemical Industries	Crosslinked& Linear	Fortron	10700	
Japan	Tosoh Corporation	Crosslinked& Linear	Susteel	5000	
Japan	Dainippon Ink& Chemicals，DIC	Crosslinked& Linear	DIC	23000	
Japan	Idemitsu Kosan	Crosslinked& Linear	IDEMITSU	1200	
Korea	SK Chemical	Linear		-	Joint venture with Tijin

The production capacity over 100,000MT per year of overseas producers nowerdays.

Competition PPS market

-Major PPS resin competitors in China

Nationality	Factory	Type	Brand	Productivity（t/a)	Remark
China	ZHEJINAG NHU	Crosslinked& Linear	NHU	15000	Regular Production
China	CHONGQING GLION NEW MATERIALS	Linear	GLION	10000	Merged with SICHUAN HONEHE , Trial production
China	Ko Yo Chemical(Group)Limited	Linear		3000	Trial production
China	Zhuhai CHANGXIAN New Materials	Linear		3000	Trial production
China	Dunhuang Xiyu Special New Materials	Linear		3000	Only for Fiber Grade
China	Sichuan Zhong Ke Xing Ye	Linear		3000	?
China	XINJIANG ZHONGTAI	Linear		3000	Still in construction
China	Neimeng Yi Teng Gao Ke	Linear		3000	Stop production
China	Zhangjiagang Xinsheng New Materials	Crosslinked& Linear		5000	Bankruptcy
China	Sichuan Deyang Chemical	Crosslinked& Linear	Haton	30000	Bankruptcy in 2013

The PPS polymer production capability will be reach 40,000-60,000T per year in the recent years in China

Competition PPS market

–Major PPS compounds competitors in the world

Nationality	Company	Base Polymer	Brand	Remark
Belgium	SOLVAY	Chevron-Phillips Chemical	Ryton	The earliest PPS producer
USA	Celenese	Fortron Industries	Fortron	Joint venture between KUREHA and Celanese
Japan	Polyplastics	Kureha Chemical Industries	Fortron	The best quality PPS producer
Japan	Toray	Toray Industries	Torelina	The biggest PPS producer in the world
Japan	DIC	Dainippon Ink& Chemicals，DIC	DIC	The main player in the PPS global maket
Japan	Tosoh	Tosoh Corporation	Susteel	
Netherlands	DSM	NHU	DSM	Joint venture with NHU,just at the begaining
Korea	SK	SK Chemical	SK	Joint venture with Tijin,have no quality PPS products so far
China	KINGFA	NHU	KINGFA	The largest compounder in China,PPS is not the main products
China	SCIENGY	NHU	SCIENGY	Special focus on PPS

Sciengy has more than 10 years working experiences in PPS application development,began to participation global market since 2016.

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Introduction of Sciengy

-Overview

- Sciengy team was founded in 2008 shanghai jinshan district,and moved to Binzhou HIDZ from 2011,specialized focus on PPS for 10 years
- The new production plant covers an area of 120 acres,the total investment over 50 million RMB in the first stage
- Sciengy has 4 production line from Coperion and KY with high torque PLC control twin screw extruder, precision feeding system and testing equipment
- Sciengy PPS were widely used in automotive, electrical and electronics,chemical, environmental protection, military and other fields.
- Sciengy PPS have been exported to Germany,France,America,Russia and Korea,Etc.

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Introduction of Sciengy

-Development history

2008-2010

The company was founded in Shanghai, and initial establishment of PPS R & D management team.
The product was certified to the FAW-Volkswagen VW50181 condensation test certification and started served for automotive market.

2011

Moved to Binzhou HIDZ and established a new PPS production and R&D management team.

2013年

Sciengy comprehensively promoted the construction of quality system and certified to CQM ISO9001: 2008 quality management system certification.

2014

Sciengy became "polyphenylene sulfide polymer composite materials engineering laboratory" and passed "a company a technology" of Binzhou City.

2015年

Sciengy introduced advanced high-torque parallel twin screw extruder production line with PLC control system

2016

Sciengy applied for and were authorize a invention patent in PPS fileds. also identified as the "municipal enterprise technology center", Involved in the drafting of the "internal combustion engine cooling water pump seventh part: Engineering plastic impeller" and released. Sciengy firstly participated in the Chinaplas in Shanghai and Germany Düsseldorf K-Show. our product began to launch into the French market.

2017

Sciengy launched its products into Germany mainstream automotive parts field at the beginning of the year.
Succesfful participated in the Chinaplas-2017 and the Germany FAKUMA Exhibition to further promote our products and brand .Qualified by UL certificate.

2018

Sciengy launched extrusion grade PPS special for automotive market at Chinaplas 2018 .
participated the 26th FAKUMA again. Further promoting IATF16949 certification with TUV

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Introduction of Sciengy

-Cultural

Company positioning :

Focus on the high temperature , corrosion resistance and other special engineering plastics production and R&D, to crate value for customers with total solutions.

Mission:

Focus on R & D and manufacturing of PPS , to provide integrated solutions for PPS application, creating value for clients.

Vision :

Committed to be an special engineering plastics modification expert, products all over the world .

Capability of Sciengy

-The main production facilities

Four PPS Compounding Production Line

One PPS Resin Testing Facility

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Capability of Sciengy

-The main testing facilities

Sciengy's Testing Lab

North University Testing Lab

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Capability of Sciengy

-Production ability

PPS Compouds

1. **Total productivity 5000MT per year**
2. The main products including:
   - Carbon fiber reinforced
   - Glass fiber reinforced
   - Mineral and glass fiber composite
   - Electrical conductivity
   - Wear-resistant and self-lubricating
   - Alloy such as PPS/PTFE,PPS/PA66,PPS/PPSU
   - Extrusion Grade for pipe

Injection products

1. Cooperated with Ningbo xuanfeng moulding company
2. With annual production capacity of 1000000 pieces of precision special engineering plastic injection molding products

Mould development

1. **Cooperated with Ningbo xuanfeng moulding company**
2. **Ability to develop special engineering plastic mould**

Capability of Sciengy

-R&D and customization

Customization PPS compounds

- Customize a variety of colors of PPS composite materials,including blue,orange,green,yellow,red,gray and other complex color PPS composites.
- Customize conductive PPS functional composite
- Customize wear resistant PPS functional composite
- According to the customer's demand or designated special formula of PPS composites

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Capability of Sciengy

-PPS resin sourcing

Variety brands PPS resin resource

- NHU
- GLION
- ……

The main PPS resin supplier from China

Capability of Sciengy

-Glass Fiber sourcing

Variety brands Glass Fiber resource from China

- CTG
- JUSHI
- CPIC
- OWENS CORNING
- ……

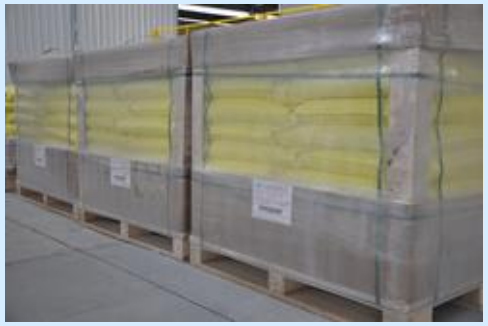
The main Glass Fiber supplier from China

中国巨石股份有限公司 CHINA JUSHI CO., LTD

CPIC FIBERGLASS

CTG 泰山玻璃纤维 Taishan Fiberglass

OWENS CORNING



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Capability of Sciengy

-Supplier Partners

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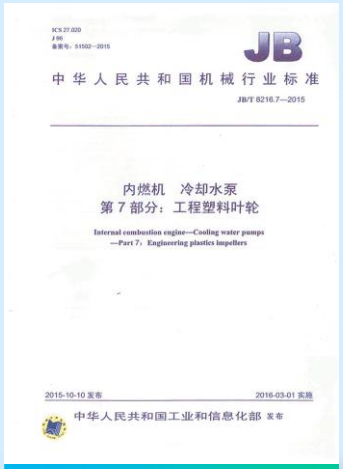
Capability of Sciengy

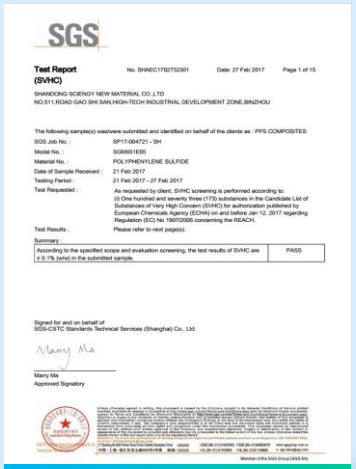
-Certifications

Quality Certification



Industry standard

Patent certificate



REACH&ROHS

UL Certificate

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Main Products

CF Reinforced

provide wear-resistant, conductive, high modulus and excellent mechanical properties and processability.

Elastomer alloy

with PPS high rigidity, high heat resistance, corrosion resistance and other excellent properties and has a good impact resistance.

Low chlorine

halogen free materials, its Ion Chlorine content is in 900PPM below.

GF Reinforced

with high mechanical strength, high temperature resistance, chemical resistance, flame retardancy and good thermal stability, excellent electrical properties and other characteristics.

GF&MD

high modulus, low warp, high mechanical and electrical performance, they are good substitutes for metal and ceramics.

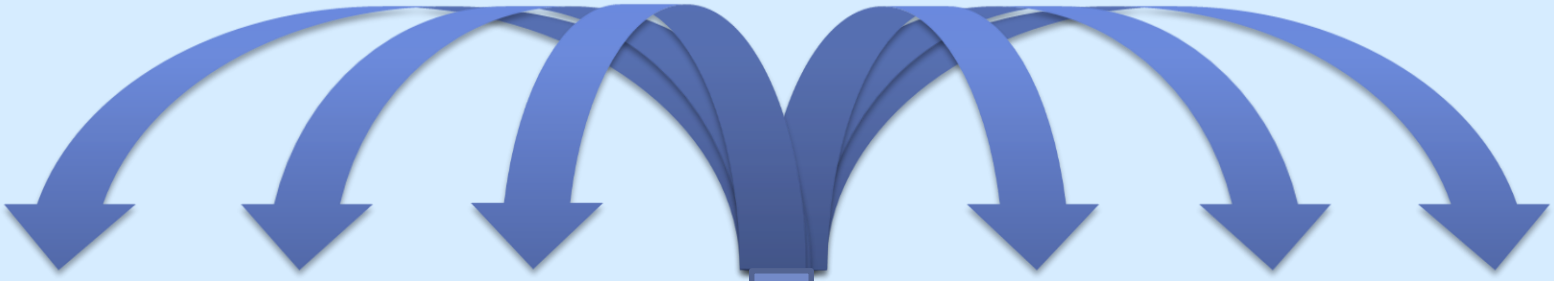
Special purpose

Including PPS/PTFE,PPS/PA66with special properties such as wear resistance and low wear resistance can be endowed with the function of the traditional PPS and can meet the requirements of the specific working conditions.

Ployphenylene Sulfide(PPS) Compounds

For more information please check on www.sciengy.com

Main Products



PEEK+CF

Low friction coefficient,Excellent electrical properties,Chemical and temperature resistance

PEEK+GF

Good mechanical properties,Chemical corrosion resistance,Radiation resistance and high temperature resistance

PEEK+PTFE

High siffness,Low wear,High strength

LFRT+GF

High toughness,Excellent dimentional stability

LFRT+CF

High toughness,Excellent dimentional stability

PPS Pipe Material

Extrusion grade material ,High toughness,Can be used as pipe and wire.

Polyetheretherketone(PEEK) Compounds

Ploy phenylene Sulfide(PPS) Compounds

Performance comparison

-Glass Fiber reinforced 40%

Competitor/Brand			Sciengy	Ticona	Polyplastics	Toray	DIC	DIC	Sciengy	Ticona
Specification			SG401A87	1140L4	1140A64	A504X90	FZ-1140	FZ-3600	SG401A87-03	1140L7
									Fast cycles	Fast cycles
Physical properties	**Unit**	**Test Standard**	>GF40<	>GF40<	>GF40<	>GF40<	>GF40<	>GF+MD65<	>GF40<	>GF40<
Density	kg/m³	ISO 1183	1660	1650	1660	1660	1660	1960	1660	1650
Mold shrinkage (Machine Direction)	%	GB/T 15585-1995	0.3	0.2~0.6	0.3	0.2	0.25	0.25	0.3	0.1~0.3
Mold shrinkage (Transverse Direction)	%	GB/T 15585-1995	0.7	0.4~0.6	0.7	0.8	1.1	1	0.7	0.5~0.7
Water absorption (23°C-24h)	%	ISO 62	0.02	0.02	0.04	0.02	0.02	0.02	0.02	0.02
Mechanical properties										
Tensile stress	MPa	ISO 527	190	195	200	200	180	125	190	170
Elongation at Break	%	ISO 527	1.8	1.9	1.8	1.8	1.7	0.8	1.8	1.6
Flexural Modulus	MPa	ISO 178	15	14.5	14	15.5	13.5	17.5	15	14.5
Flexural Strength	MPa	ISO178	280	285	280	305	265	200	280	260
Charpy Impact Strength	kJ/m²	IS0 179	11	10	9.5	11	10	7	9	8
Coefficient of Friction		GB/T 3960	0.34	/	/	/	0.35	0.35	/	/
Thermal properties										
Heat Deflection Temperature High Load	℃	ISO 75	260	270	270	260	265	265	260	270
Flammability	class	UL-94	V-0	v-0	V-0	v-0	V-0	V-0	V-0	V-0
Electrical properties										
Dielectric Strength	KV/mm	IEC 60243	16	28	16	24	16	16	16	26
Dielectric Constant	1MHz	IEC 60250	4.2	4.6	4.5	4.2	4	5	4.2	4
Dissipation Factor	1MHz	IEC 60250	0.002	0.002	0.002	0.002	0.002	0.007	0.002	
Volume resistivity	Ω·cm	IEC 60093	2×10^{15}	$>1\times10^{15}$	4×10^{16}	1×10^{16}	1×10^{16}	1×10^{16}	2×10^{15}	>1×1015
CTI	V	IEC 60112	150	125	150	135	170	250	150	125

Performance comparison

-Filled with mineral&glass fiber 65%

Brand			Sclengy	Sclengy	Ryton	Ryton	Ticona	Toraty	DIC
Specification &Model	Unit	Test Standard	SGM651E65	SGM651E43	BR111	R-7-120NA	6165A4	A310MX04	FZ-3600
			Standard	Standard	Standard	Standsrd	Standard	Standard	Standard
Physical properties			>GF+MD65<	>GF+MD65<	>GF+MD65<	>GF+MD65<	>GF+MD65<	>GF+MD65<	>GF+MD65<
Density	kg/m³	ISO 1183	1930	1970	1940	1990	1950	1970	1960
Mold shrinkage (Machine Direction)	%	GB/T 15585-1995	0.3	0.3	0.2	0.2	0.2~0.6	0.2	0.25
Mold shrinkage (Transverse Direction)	%	GB/T 15585-1995	0.5	0.5	0.5	0.6	0.3~0.7	0.6	1
Water absorption (23°C-sat)	%	ISO 62	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Mechanical properties	**Unit**	**Test Standard**	**Value**	**Value**	**Value**	**Value**	**Value**		
Tensile stress	MPa	ISO 527	165	145	165	140	130	130	125
Elongation at Break (at Break)	%	ISO 527	1	1	1.1	0.9	1.2	0.8	0.8
Flexural Modulus	GPa	ISO 178	20	21	19	19	18.8	22	17.5
Flexural Strength	MPa	ISO178	255	225	250	220	210	210	200
Charpy Impact Strength (V-notched)	kJ/m²	IS0 179	8	7	7.5	6	7	8	7
Coefficient of Friction			/	/	/	/	/	/	/
Thermal properties	**Unit**	**Test Standard**	**Value**	**Value**	**Value**	**Value**	**Value**		
Heat Deflection Tem p High Load (1.8MPa)	°C	ISO 75	265	265	>260	>260	270	260	265
Flammability	class	UL-94	V-0	V-0	V-0/5VA	V-0/5VA	V-0	V-0	V-0
Electrical properties	**Unit**	**Test Standard**	**Value**	**Value**	**Value**	**Value**	**Value**		
Dielectric Strength	KV/mm	IEC 60243	14	14	18	16	20	20	16
Dielectric Constant	1MHz	IEC 60250	5	5	4.6	4.8	5.6	5.1	5
Dissipation Factor	1MHz	IEC 60250	0.001	0.001	0.003	0.002	0.002	0.002	0.007
Volume resistivity	Ω·cm	IEC 60093	1.6×10^{15}	1.6×10^{15}	1×10^{15}	1×10^{15}	$>1\times10^{17}$	1×10^{16}	1×10^{16}
CTI	V	IEC 60112	200	225	225	250	200	/	250
Test specimen production	**Unit**	**Test Standard**	**Value**	**Value**	**Value**	**Value**	**Value**		
Injection molding melt temperature	°C	ISO 294	290~330	290~330	315~345	315~345	310~340	/	/
Injection molding mold temperature	°C	ISO 294	120~160	120~160	135	135	135~160	/	/

Remark : All figures in the table are the typical values of the materials and not the minimum values of the materials specifications.

Performance comparison

-PPS/PTFE Alloy

Competitor/Brand			Sciengy					TORAY	DIC	FORTRON			LubriOne	Ryton
Specification			ES-SGC101S21	ES-SG301E41	ES-SG301E43	ES-SG401E65	SGC601LEL	A515	WL-30	6345A4	3130A1	1342L4	SF-30GF/15T	BR42B
			PPS+CF10+PTFE	PPS+GF30+PTFE	PPS+GF30+PTFE	PPS+GF40+PTFE	PPS+GF+MD	PPS+GF30+PTFE	PPS+GF30+PTFE	PPS+GF30+PTFE	PPS+Whiskers30%	PPS+GF40+PTFE	PPS+GF30+PTFE	PPS+GF40+PTFE
Physical properties	**Unit**	**Test Standard**												
Density	kg/m³	ISO 1183	1600	1660	1690	1770	1830	1680	1680	1680	1620	1690	1700	1760
Mold shrinkage (Machine Direction)	%	GB/T 15585-1995	0.3	0.3	0.3	0.3	0.3	0.2	0.25	0.3	0.4	0.2	0.2	0.2
Mold shrinkage (Transverse Direction)	%	GB/T 15585-1995	0.8	0.7	0.7	0.7	0.6	0.85	1	0.7	1	0.5	0.25	0.5
Water absorption (23℃-24h)	%	ISO 62	0.04	0.03	0.03	0.03	0.03	0.02	0.05	0.05	0.04	0.02	/	0.02
Mechanical properties														
Tensile stress	MPa	ISO 527	125	145	150	155	100	145	150	155	125	165	138	190
Elongation at Break	%	ISO 527	1.2	1.2	1.2	1.3	0.7	1.6	1.6	1.8	1.7	1.6	4	1.6
Flexural Modulus	MPa	ISO 178	14000	11000	10000	15000	20000	12000	10000	10300	11500	13700	10300	14000
Flexural Strength	MPa	ISO178	200	210	225	240	160	220	200	215	230	245	159	280
Charpy Impact Strength （V-notched）	kJ/m²	IS0 179	6.5	8	9	9	4.5	10	6	8.5	2.5	8.5	11	9.5
Coefficient of Friction(Dry)		GB/T 3960	0.17	0.23	0.17	0.26	/	0.15	0.23/0.22	/	/	0.2	/	0.32
Thermal properties														
Heat Deflection Temperature High Load（1.8MPa）	℃	ISO 75	260	260	260	260	260	260	230	265	210	270	260	265
Flammability	class	UL-94	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0
Electrical properties														
Dielectric Strength	KV/mm	IEC 60243	/	16	16	16	/	26	16	19	9	/	/	22
Dielectric Constant	1MHz	IEC 60250	/	4.2	4.2	4.2	/	3.4	4	4.2	6.4	/	/	3.7
Volume resistivity	Ω·cm	IEC 60093	/	2×10^{15}	2×10^{15}	2×10^{15}	/	1×10^{14}	1×10^{16}	4×10^{15}	9×10^{15}	/	1×10^{14}	1×10^{16}

Performance comparison

--Carbon Fiber reinforced

Competitor/Brand			Sciengy			TORAY		FORTRON	DIC		
Specification			SGC101S41	SGC301S87	SGC301STF	A630T-10V	A630T-30V	2130A1	CZL-1130	CZL-2000	CZ-1030
			CF10%	CF30%	CF30%	CF10%	CF30%	CF30%	CF30%	CF50%	CF30%
Physical properties	**Unit**	**Test Standard**									
Density	kg/m³	ISO 1183	1380	1440	1440	1376	1460	1440	1450	1520	1430
Mold shrinkage (Machine Direction)	%	GB/T 15585-1995	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.25	0.25
Mold shrinkage (Transverse Direction)	%	GB/T 15585-1995	0.7	0.7	0.6	0.8	0.5	0.6	1	0.25	1.1
Water absorption (23℃-24h)	%	ISO 62	0.04	0.04	0.04	0.02	0.02	0.04	0.02	0.07	0.08
Mechanical properties											
Tensile stress	MPa	ISO 527	155	175	210	157	236	215	200	100	115
Elongation at Break	%	ISO 527	1.2	0.8	1.3	1.4	1.4	1.3	1.2	0.8	0.8
Flexural Modulus	MPa	ISO 178	11000	21000	23000	10900	27800	21200	20000	8000	9000
Flexural Strength	MPa	ISO178	235	270	310	232	342	300	290	110	170
Charpy Impact Strength （V-notched）	kJ/m²	IS0 179	6	6	7	5.2	5.8	5.5	6.5	4.5	4.5
Coefficient of Friction(Dry)		GB/T 3960	0.2	0.25	0.28	0.2	0.29	/	0.25	0.21	0.2
Coefficient of Friction(lubricant）		GB/T 3960	/	/	/	/	/	/	/	/	/
Thermal properties											
Heat Deflection Temperature High Load（1.8MPa）	℃	ISO 75	255	260	265	260	260	265	265	265	265
Flammability	class	UL-94	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0

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Performance comparison

--Carbon Fiber/PTFE Alloy

Competitor/Brand			Sciengy			TORAY	DIC	FORTRON
Specification			ES- SGC101S21	SGC201S63	ES-SGC301S87	A512-X02N3	CZL-4033	7140A4
			PPS+CF10%+PTFE	PPS+CF20%+MD	PPS+CF30%+PTFE	PPS+CF+PTFE	PPS+CF30%+PTFE	PPS+CF30%+PTFE
Physical properties	**Unit**	**Test Standard**						
Density	kg/m³	ISO 1183	1600	1340	1500	1515	1530	1490
Mold shrinkage (Machine Direction)	%	GB/T 15585-1995	0.3	0.35	0.2	0.2	0.1	0.1
Mold shrinkage (Transverse Direction)	%	GB/T 15585-1995	0.7	0.8	0.7	0.8	1	0.5
Water absorption (23℃-24h)	%	ISO 62	0.04	0.03	0.02	0.02	0.02	0.04
Mechanical properties								
Tensile stress	MPa	ISO 527	125	165	180	110	170	180
Elongation at Break	%	ISO 527	1.2	1.3	1.2	1.5	1.1	1.1
Flexural Modulus	MPa	ISO 178	14000	22000	22000	9400	18000	22800
Flexural Strength	MPa	ISO178	200	230	270	156	270	270
Charpy Impact Strength （V-notched）	kJ/m²	IS0 179	6.5	4.5	6	4.7	5.5	4.5
Coefficient of Friction(Dry)		GB/T 3960	0.16	0.1	0.22	0.15	0.23	/
Coefficient of Friction(lubricant）		GB/T 3960	/	/	/			
Thermal properties								
Heat Deflection Temperature High Load（1.8MPa）	℃	ISO 75	260	260	265	260	265	270
Flammability	class	UL-94	V-0	V-0	V-0	V-0	V-0	V-0

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Performance comparison

-Special PPS for pipe

Physical properties	Unit	Test Standard	Sciengy RS-SG320RELA	Sciengy RS-SG320RELF	Fortron FX75T1	Ryton XE3500BL
Density	kg/m³	ISO 1183	1200	1200	1200	1200
Mold shrinkage	%	GB/T 15585	0.2	0.2	1.9-2.1	0.2
Water absorption (23°C-24h)	%	ISO 62	0.1	0.1	/	0.1
Mechanical properties						
Tensile Strength	MPa	ISO 527	40	40	42	40
Elongation at Break (at Break)	%	ISO 527	80	80	80	80
Flexural Modulus	MPa	ISO 178	1500	1500	1600	1500
Flexural Strength	MPa	ISO178	60	60	50	60
Charpy Impact Strength (V-notched)	kJ/m²	IS0 179	50	50	46	50
Thermal properties						
Heat Deflection Tem p High Load (1.8MPa)	°C	ISO 75	90	90	95	90
Flammability	class	UL-94	V-1	V-1	/	V-1
Electrical properties						
Dielectric Strength	KV/mm	IEC 60243	24	24	/	24
Dielectric Constant	-	IEC 60250	3	3	3.24	3.1
Dissipation Factor	-	IEC 60250	0.002	0.002	/	0.002

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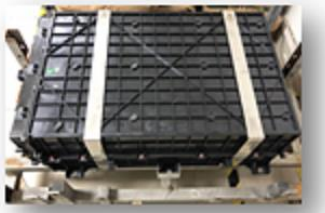
Where we are?

-Typical Applications

Where we are?

-Typical Applications



注塑件

电池模组

PPS is widely used in electric vehicles, such as energy storage and junction boxes, and new energy vehicle batteries etc.

PPS is also widely used in automotive pipeline system

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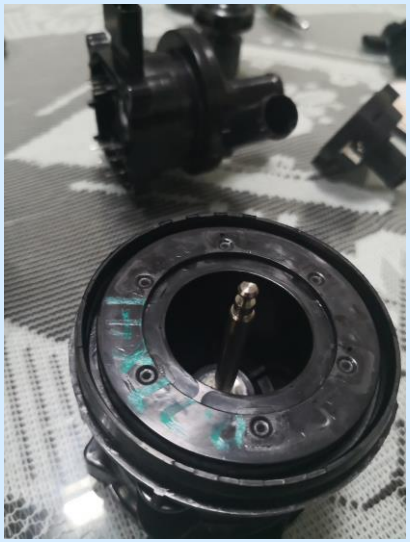
Where we are?

-Typical Applications



Electric Water Pumps

Mutimedia Central Carrier

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The Main Parterners

-Distributors and End users

WUXI ZENGRUN AUTOMOBILE ACCESSORY CO.,LED
无锡增润汽车附件有限公司

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What can we do for you?

-One-Stop Service Platform

Advantage

We have the technology to produce the PPS materials by filled with carbon fiber， aramid fiber， Glass fiber， PTFE and glass bead materials etc., and we have the technology to research and development PPS / PTFE abrasion resistance, electrical conductivity, thermal conductivity and other functional materials, such as alloy, OEM customization, mold development, injection guidance, that is to say we are an one-step PPS solution platform

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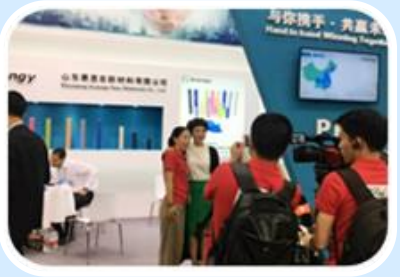
The footprints of Plastics Show

Cooperated with Clickplastics

@Fakuma 2018

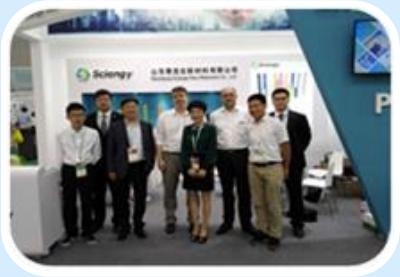
Continental Team

@Fakuma 2018



Media interview

@ChinaPlas 2017



Clickplastics from Germany

@ChinaPlas 2017

Cooperated with Clickplastics

@Fakuma 2017

OSRAM Team

@Fakuma 2017

Sciengy Team

@Chinaplas 2018

Congratulations

@Chinaplas 2018

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Thank you for your attention !

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