KuibyshevAzot

Engineering Plastics (Shanghai) Co.,Ltd.

古比雪夫氮 (上海) 工程塑料有限公司

古比雪夫氮封闭股份有限公司

古比雪夫氮封闭股份有限公司是一家俄罗斯化工企业中的领先企业。
公司专业生产销售己内酰胺及相关衍生品(聚酰氨–6，高强度工业纤维和子线)，以及氨气和氮肥。

今天的古比雪夫氮

- 俄罗斯氮肥生产的十大企业之一，并在独联体市场上占有领先份额；
- 俄罗斯最大的PA6生产商，并且是俄罗斯国内唯一一家以此为基础生产高强度工业纤维和子线的企业；
- 在俄罗斯“400家大型出口企业”排行榜中占据第175位；

在未来的发展战略中，公司主要着眼于扩大生产能力，加大高附加值产品的比重。在2003年至2004年间，公司开始了第一阶段大规模投资，即自产己内酰胺的深加工项目。开始生产聚酰氨-6，高强度工业纤维和子线。其中一个项目即是利用现有的尼龙6树脂生产改性工程塑料，目前的产量为73000吨/年。

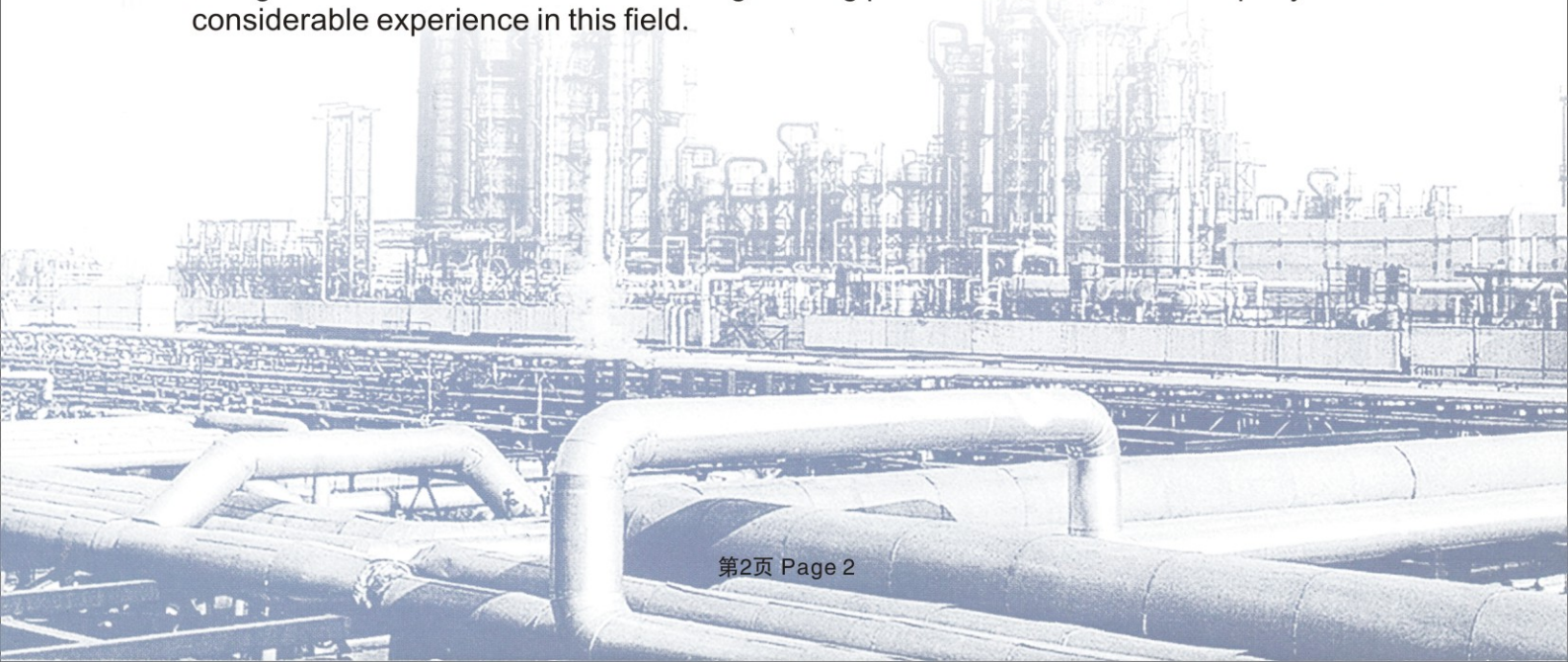
JSC "KuibyshevAzot" is one of the leading chemical enterprises in Russia.

The enterprise specializes in production and sales of caprolactam and products of its processing (polyamide 6, high tenacity technical yarns, cord fabric) as well as those of ammonia and nitrogen fertilizers.

JSC KuibyshevAzot Today

- The leader in caprolactam production within the CIS, and one of ten first-rated word caprolactam producers
- The largest producer of polyamide-6 in Russia and the only one enterprise manufactures high-viscosity polyamide-6,high tenacity technical yarn and cord fabric on its basis
- Ranking the 175-th among the top 400 Russia's companies in sales according to the "Expert" journal's rating

Following the development strategy of the Company, KuibyshevAzot invests considerable assets to expand present productive capacity and increase share of goods with higher added cost. In 2003-2004 enterprise finished the first stage of one of the large-scale investment projects for deep processing of own caprolactam, putting into production polyamide-6, industrial yarn and cord fabric. One of the projects is establishing production of engineering plastics based on the own PA 6 chips. At the present time, PA6 output is 155, 000 mt per year.
Being a shareholder of manufacture engineering plastics in Russia, the Company has a considerable experience in this field.



古比雪夫氮(上海)工程塑料有限公司

在综合考察了中国及东南亚地区的市场前景后，公司决定在中国投资兴建生产能力为10000吨/年(一期)的生产基地，同时建立综合仓储体系。古比雪夫氮封闭式股份公司在这个新的合资企业里占有多数股份。古比雪夫氮(上海)工程塑料有限公司位于上海市青浦区，法定注册资本为900万美金，总投资额为1800万美金。

在中国区域内的工程塑料的生产，要求厂商能够以最具竞争力的价格向客户提供高质量的产品。鉴于此，公司计划在该区域使用自有的高质量的PA6原料，引进在工程塑料改性领域处于领先地位的德国贝尔斯托夫公司的设备，对尼龙6原料进行改性加工。

公司土建于2007年2月份竣工，于2007年3月投产。在初期阶段投放两条产量分别为1000KG/H，及350KG/H的自动生产线，生产用于汽车、电动工具、家有电器及电动机械设备领域的各种型号的改性尼龙6产品。

公司为客户生产用于各类模塑制件的改性PA6，上述材料经过专业加工，添加适量助剂材料，能够大提高产品质量及缩短生产周期。

我们相信，公司凭借在该区域市场的工作经验，完整、自主的原材料供应链及最先进的技术和设备，能在最短的时间内，以最具竞争力的价格和高质量的产品赢得自己的客户。

在与客户合作的过程中，我们遵循“追求卓越产品性能，建立长期合作关系”的工作原则。

KuibyshevAzot Engineering Plastics (Shanghai) Co., Ltd.

Assessing of plastics market prospects in China and South-Eastern Asia, the company made a decision to establish its own production plant, based on production of compounds. The plant is expected to produce 10,000t/a(1st stage), The project also provides construction of storage facilities. Prevailing share in chartered capital of joint venture belongs to JSC "KuibyshevAzot". KuibyshevAzot Engineering plastics (Shanghai) Co., Ltd. is located in Qingpu Free Economic Development Zone. The amount of investments is 9 million USD.

Production of engineering plastics in China is supposed to provide customers with high quality products and competitive prices. With that purpose, the company is planning to use up-to-date developments in this field, the own high quality raw materials (PA6) and equipment supplied by Berstorff GmbH, one of the leading compound equipment manufactures.

The plant construction finished in February 2007, put into production in March 2007. At the first stage two fully automated lines were put into production, with the capacity 1,000 and 350 kg/h. These products are expected to produce for the automotive industry, electric tools, household electrical appliances and electrical engineering manufactures.

The company also produce modified PA6 for customers who use it as a component for molding. The above-mentioned material processed by special additives will improve products quality and shorten production cycle.

The sales volume in 2008 and 2009 are 962 mt and 2518 mt, we are expecting sales volume to reach 5500 mt (13, 200, 000 $) in 2010.

We believe that company' s work experience in the region, our own supply chain of raw materials, up-to-date technology and equipment will let us in the near future offer the consumers high quality products with competitive prices.

In cooperation with the partners, we follow the principles of stable blusiness relations and long-term cooperation.

古比雪夫氮(上海)工程塑料有限公司

古比雪夫氮（上海）工程塑料有限公司成立于2005年9月，是俄罗斯古比雪夫氮封闭式股份有限公司在中国投资新建的实业型企业。

公司采用德国Berstorff先进的双螺杆挤出机专业生产改性PA6产品，是国内一流的聚酰胺工程塑料供应商，产品性能卓越，质量稳定。Volgamid 系列产品包括注塑、矿物填充、玻纤增强、阴燃、阴燃增强以及增韧等级别，广泛应用汽车、电子电气、建筑及电动工具等行业。

KuibyshevAzot Engineering Plastics (Shanghai) Co., Ltd.was established in September 2005. It is a new industrial enterprise invested by Russian KuibyshevAzot JSC in China.

The company specializes in producing modified PA6 using advanced twin screw extruders supplied by Berstorff GmbH, Germany, and is a one of the biggest supplier of polyamide engineering plastics in China, of which the products have excellent performance and stable quality. Production of Volgamid series including PA6 IM Grade, Pa6 M, Reinforced Glass Fiber, Flame-retardant and etc, are widely used in automotive, electric & electronic, construction and power tools industries.


ZERTIFIKAT ◆ CERTIFICATE ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE

The Certification Body of TÜV Asia Pacific Ltd. TÜV Süddeutschland Group certifies that

KuibyshevAzot Engineering Plastics (Shanghai) Co., Ltd.
No. 99, Lane 1098, Shengli Road, Qingpu Industrial Area,
Shanghai, P. R. China
Post Code: 201799

has established and applied a Quality Management System for

Design, Manufacture and Sales of Engineering Plastics

An audit was performed, Report No. 20041173
Proof has been furnished that the requirements according to

ISO 9001: 2000

are fulfilled. The certificate is valid until 2011-09-21
Certificate Registration No. TUV100 03 1150
2008-9-22

ISO 9001

ONLINE CERTIFICATIONS

Quality Test

RoHS Regular Test

Halogen&Phosphorus Test



Volgamid PA6增强系列
Volgamid PA6 Reinforced Series

主要成分: 聚酰胺6,玻纤含量10%-50%,包括短纤增强和长纤两类

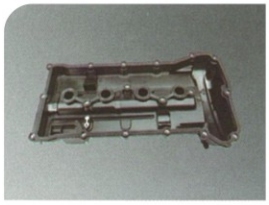
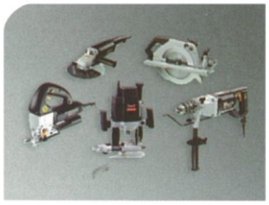
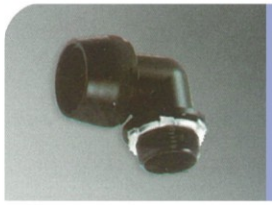
Main Components: Polyamide 6, 10%–50% of Glass fiber content, including chopped glass fiber reinforced and long glass fiber

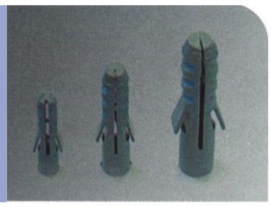
特征: 高刚性，尺寸稳定性好，热变形温度高，热稳定性强，机械性能优异，微量元素符合欧盟规定

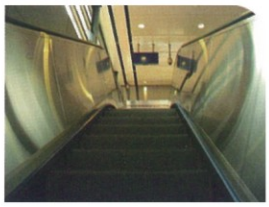
Characteristics: High stiffness, Good stability in size, High temperature of thermal distortion, High thermal stability, Good mechanical property, Standard content of trace element according to Eu regulations

典型应用: 电动工具部件，除草机，汽车零部件，比如发动机引擎部件、电器系统、燃油系统、内外装饰件等

Typical Application: Components of electrical tool, Weeding mechine, Auto parts, for example, parts of engine, Electrical System, Fuel system and Inner & Outer decoration





Volgamid PA6注塑级
Volgamid PA6 IM Grade

主要成分：聚酰胺6，润滑剂，添加剂等

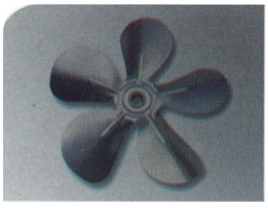
Main Components: Polyamide 6, Lubricant, Additive, etc.

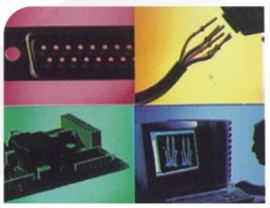
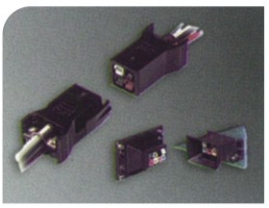
特征：高流动，易脱模，表面光泽高，成型快速，产品尺寸收缩变化小，稳定

Characteristics: High liquidity, Easy releasing, Glossy surface, Short moulding cycle, Low shrinkage, Stability

典型应用：风扇叶片、燃料过滤器外壳、铁轨垫片、建筑用方销等

Typical Application: Fan blades, Outers of fuel filter, Railway shims, Square cotter using for construction,etc.


Volgamid PA6 阻燃系列
Volgamid PA6 Flame Retardant Series

主要成分: 聚酰胺6, 阻燃剂, 其它成分

Main Components: Polyamide 6, Flame Retardant and other elements

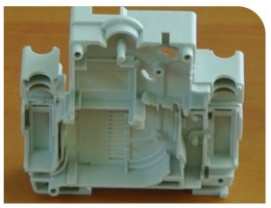
特征: 阻燃性符合UL94标准，优良的电气绝缘性，良好的机械性能和可加工性

Characteristics: Flame Retardant fits in with UL 94, Good Insulativity, Good Mechanical Property and workability

典型应用: 接插件, 变压器线圈骨架, 接触器, 断路器, 低压电器壳体, 电子电器元件等

Typical Application: Socket Connector, Framework of Transformer loop, Contactor, Breaker, Body of Low Voltage Apparatus and Electrical Elements, etc.





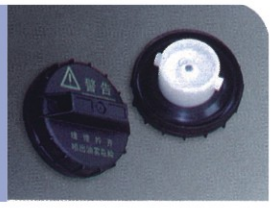


Volgamid PA6矿物填充系列
Volgamid PA6 Mineral Filling Series

主要成分：PA6，矿物填料
Main Components: PA6, Mineral Filler

特征：尺寸稳定性好，收缩率低，加工性良好，低翘曲
Characteristics: Good stability in size, Low shrinkage, Excellent process ability, Low warpage

典型应用：船用五金，托架，配件，线轴，办公家具，家用电器零部件，断路器外壳
Typical Application: Marine hardware, Brackets, Fittings, Bobbins, Office furniture, Appliance components, Breaker housing





Volgamid PA6 复合增强系列
Volgamid PA6 Mineral & GF Reinforced Series

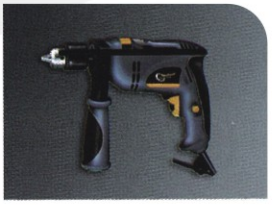
主要成分: 聚酰胺6，玻纤，矿物填料
Main Components: Polyamide 6, Glass Fiber, Mineral Filler

特征: 低收缩，低翘曲，快速成形，表面平整性优异
Characteristics: Low Shrinkage, Low Warpage, Short Cycle Time, Better Surface

典型应用: 发动机罩盖，后视镜架，汽车灯座，园艺工具等
Typical Application: Engine Cover, Rearview Mirror, Auto Lamp Holder, Gardening Tools, etc.







Volgamid PA6 增韧系列
Volgamid PA6 Toughness Series

主要成分: 聚酰胺6，增韧剂

Main Components: Polyamide 6,Toughness

特征: 良好的耐低温性能，高流动性，低收缩，低吸水

Characteristics: Good Resistance for low temperature, High Fluidity, Low Water Absorption

典型应用：电子电器元件，机械档块，汽车零部件及运动器材

Typical Application: Electronics Parts, Auto Parts and Exercise Equipment





Volgamid PA66 增强系列
Volgamid PA66 Reinforced Series

主要成分: 聚酰胺66,玻纤含量10%–50%

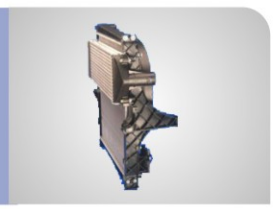
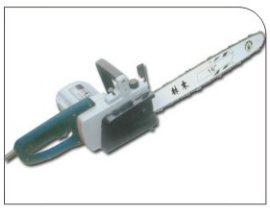
Main Components: Polyamide 66, 10%-50% of Glassfiber content

特征: 高刚性，尺寸稳定性好，热变形温度高，热稳定性强，机械性能优异，微量元素符合欧盟规定

Characteristics: High stiffness, good stability in size, High temperature of thermal distortion, High thermal stability, Good mechanical property, Standard content of trace element according to European regulations

典型应用: 电动工具部件，汽车零部件，比如发动机引擎部件、汽车水室、电器系统、燃油系统、内外装饰件等

Typical Application: Components of electrical tool, Weeding mechine, Auto parts, for example, parts of engine, Auto water tank, Electrical System, Fuel system and inner & outer decoration




Volgamid PA66 超韧系列
Volgamid PA66 Super Toughness Series

主要成分：聚酰胺66,增韧剂

Main Components: Polyamide 66, Flexibilizer

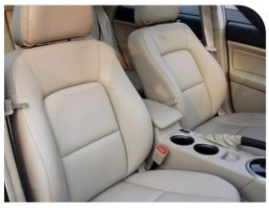
特性：超强的抗冲击性，杰出的低温韧性

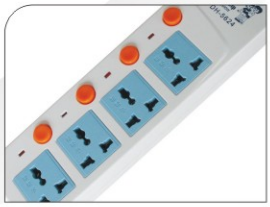
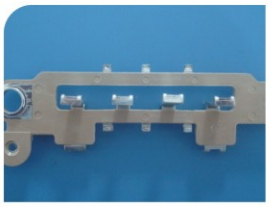
Characteristics: Super Impact Resistance, Excellent Low-temperature Toughness

典型应用：汽车零部件，冬季运动器材及滚轮等高抗冲性要求的制品

Typical Application: Auto Parts, the products with Impact Shock Resistance demand, such as Exercise Equipment for winter, Idler wheel, etc.





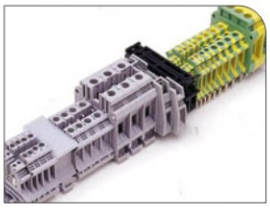

Volgamid PA66 阻燃系列
Volgamid PA66 Flame Retardant Series

主要成分：聚酰胺66，玻纤，阻燃剂
Main Components: Polyamide 66, Glass fiber, Flame Retardant

特性：阻燃等级UL-94V0，机械性能优良
Characteristics: Flame Retardant fits in with UL 94, Good Mechanical Property

典型应用：电子接插件，电器部件、变压器线圈骨架、低压电器等电子电器元件，接头，开关等
Typical Application: Socket Connector, Framework of Transformer loops, Contactor, Switch, Breaker and Electrical Elements, etc.







Volgamid PA66 增强增韧系列
Volgamid PA66 Reinforced and Toughness Series

主要成分：聚酰胺66，玻纤，增韧剂
Main Components: Polyamide 66, Glass fiber, Toughening Agent

特性：优良的刚性与抗冲击性的综合平衡，低收缩
Characteristics: Balance of high stiffness and Impact resistance, Low Shrinkage

典型应用: 电动工具部件、线圈骨架、散热器风扇
Typical Application: Electrical tools parts, Frame of loops, Fan of Radiator





Volgamid PA66 合金系列
Volgamid PA66 Alloy Series

主要成分：聚酰胺66，聚酰胺6，玻纤

Main Components: Polyamide 66, Polyamide 6, Glass fiber

特性：优异的强度，韧性和流动性

Characteristics: Excellent Intensity, Toughness and Fluidity

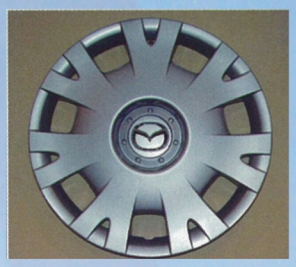
典型应用：机械和电气零件，如微型电动机，汽车零件，如散热器水箱，变速杆

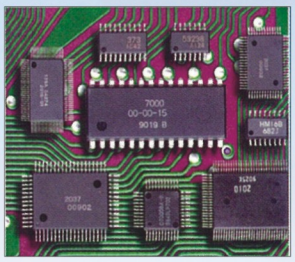
Typical Application: Machine, Appliance parts, such as small-size electromotor; Auto parts, such as water tank of radiator, Gearlever



KuibyshevAzot

Engineering Plastics (Shanghai) Co.,Ltd.





工程塑料 Engineering Plastics

尼龙6增强系列	PA6 Reinforced Series
尼龙6注塑级	Injection Moulding Grade
尼龙6阻燃系列	PA6 Flame-Retardant Series
尼龙6矿物填充系列	PA6 Mineral Filling Series
尼龙6复合增强系列	Mineral & Glass Fiber Reinforced Series
尼龙6增韧系列	Toughness Series
尼龙66增强系列	PA66 Reinforced Series
尼龙66超韧系列	PA66 Super Toughness Series
尼龙66阻燃系列	PA66 Flame Retardant Series
尼龙66增强增韧系列	PA66 Reinforced and Toughness Series
尼龙66/6合金系列	PA66/6 Alloy Series

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			Volgamid玻纤增强型尼龙6 GF Reinforced PA6									
	测试标准 Test Standards	单位 Units	PA6G15NC201	PA6G20NC201	PA6G25NC201	PA6G30NC101	PA6G30NC201	PA6G30HSNC201	PA6G30HSBK201	PA6G30LSNC201	PA6G40NC201	PA6G50NC201
机械性能 Mechanical Properties												
洛氏硬度 Hardness, Rockwell	ISO 2039/2		117	117	117	119	117			117	117	118
拉伸断裂强度 Tensile Strength at Break(23℃)	ISO527	Mpa	130	145	159	169	185	194	185	170	189	216
断裂伸长率 Tensile Elongation at Break(23℃)	ISO527	%	3.5	3.3	3.3	3.2	3.2		3.0	2.2	3.0	2.9
弯曲强度 Flexural Strength	ISO178	Mpa	177	196	216	235	280	278	260	240	279	326
弯曲模量 Flexural Modulus	ISO178	Mpa	4739	5468	6416	7850	9000	8921		8000	1069	13582
简支梁无缺口冲击强度 Charpy Impact Strength(23℃)	ISO179	KJ/M^2	78	83	91	90	NB	97.5	96.8	NB	95	96
简支梁缺口冲击强度 Notched Charpy Impact Strength(23℃	ISO179	KJ/M^2	8.6	10.6	13.2	13.6	15	15.2	14.6	15	16.1	19
热性能 Thermal Properties												
熔点 Melting Point	ISO3146C	℃	220	220	220	220	220			220	220	220
热变形温度 Heat Deflection Temperature 1.80MPa	ISO75	℃	195	195	201	210	208	210	210	208	211	218
物理性能 Physical Properties												
密度 Density	ISO1183	g/cm^3	1.24	1.24	1.31	1.37	1.34	1.34	1.36	1.34	1.4	1.56
灰份 Ash Content	ISO3451-4	%	15±1	15±1	25±2	30 ± 2	30±2	30 ± 2	30±2	30±2	40±2	50±2
吸水率 Water Absorption 24H/23℃	ISO62	%	2.3	2.3	2	1.9	1.9		1.9	1.9	1.7	1.6
模塑收缩率 Molding Shrinkage	GB/T15585	%	0.3/0.8	0.3/0.8	0.2/0.5	0.1/0.5	0.1/0.5	0.3/0.8	0.3/0.8	0.1/0.5	0.1/0.5	0.1/0.4
电性能 Electrical Properties												
电痕化指数 Comp Track Index												
表面电阻率 Surface Resistivity	IEC 60093	Ω					10^{12}			10^{12}	10^{13}	10^{12}
阻燃性能 Flame Resistance Properties												
燃烧试验 Burning Test	UL-94	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
灼热丝可燃指数 Glow-wire Flammability Index												
注塑工艺 Injection Technique												
烘干温度/时间(小时) Drying Temperature/Time(Hour)		℃	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4
注塑成型温度范围 Injection Temperature Range		℃	230-270	230-270	230-270	230-270	230-280	230-280	240-280	230-280	230-280	230-280
注塑成型模具温度 Injection Mould Temperature		℃	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90

以上数据为实测典型值，仅供参考，公司可按客户要求提供特殊牌号。

			Volgamid注塑级尼龙 Injection Moulding PA6		Volgamid矿物填充尼龙6 Mineral Filled PA6		Volgamid 阻燃尼龙6 Flame Retardant PA6				Volgamid 增韧尼龙6 Toughness PA6			Volgamid增强增韧尼龙 6 GF Reinforced & Toughness PA6		
	测试标准 Test Standards	单位 Units	PA6IMNC101	PA6IMNC102	PA6M20NC101	PA6GM40NC101	PA6FRNC101	PA6G30FRNC201	PA6G30FRNC202	PA6M30FRGY101	PA6TNC101	PA6TNC102	PA6TNC103	PA6G30TNC201	PA6G30TBK201	PA6G40TBK201
机械性能 Mechanical Properties																
洛氏硬度 Hardness, Rockwell	ISO 2039/2		116	116	115		118	117	117		111	108	105			
拉伸断裂强度 Tensile Strength at Break(23℃)	ISO527	Mpa	86	86	75	124	73	151	140	58	54	46	42	173	167	205
断裂伸长率 Tensile Elongation at Break(23℃)	ISO527	%	3.9	3.9			18	3.9	2.6							
弯曲强度 Flexural Strength	ISO178	Mpa	92	92	116	172	95	201	206	90	67	53	50	240	235	315
弯曲模量 Flexural Modulus	ISO178	Mpa	2318	2318	4800	9970	3500	7294	9033	5280				8000	8200	12000
简支梁无缺口冲击强度 Charpy Impact Strength(23℃)	ISO179	KJ/M^2	NB	NB	59	46.4	70	72	77	25	NB	NB	NB	NB	97	NB
简支梁缺口冲击强度 Notched Charpy Impact Strength(23℃)	ISO179	KJ/M^2	5	6.8	3.7	5.3	3	11.0	11.6	3	77	65	83	22	17	22
热性能 Thermal Properties																
熔点 Melting Point	ISO3146C	℃	220	220	225		215	220	220	220	215	220	220	220	220	220
热变形温度 Heat Deflection Temperature 1.80MPa	ISO75	℃	65	65	104	195	68	204	208	205	55	54	51	205	205	
物理性能 Physical Properties																
密度 Density	ISO1183	g/cm^3	1.13	1.13	1.27	1.52	1.16	1.42	1.59	1.5	1.08	1.07	1.05	1.34	1.34	1.45
灰份 Ash Content	ISO3451-4	%			20±1	40±2		GF30	GF30					30±2	30±2	40±2
吸水率 Water Absorption 24H/23℃	ISO62	%	2.5	2.5	1.4									1.5	1.5	1.5
模塑收缩率 Molding Shrinkage	GB/T15585	%	0.9/0.87	0.9/0.87	0.4/0.5		0.7/1.0	0.3/0.7	0.3/0.7		1.2/1.4	1.2/1.6	1.2/1.5	0.3/0.8	0.3/0.8	0.3/0.8
电性能 Electrical Properties																
电痕化指数 Comp Track Index										350						
表面电阻率 Surface Resistivity	IEC 60093	Ω	10^{13}	10^{13}	10^{13}			10^{13}	10^{12}		10^{12}	10^{12}	10^{12}	10^{13}	10^{13}	10^{13}
阻燃性能 Flame Resistance Properties																
燃烧试验 Burning Test	UL-94	HB	HB	HB	HB	HB	V0	V0	V0	V0	HB	HB	HB	HB	HB	HB
灼热丝可燃指数 Glow-wire Flammability Index																
注塑工艺 Injection Technique																
烘干温度/时间(小时) Drying Temperature/Time(Hour)		℃	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	85/3-4	85/3-4	85/3-4	90/3-4	90/3-4	90/3-4
注塑成型温度范围 Injection Temperature Range		℃	220-260	220-260	230-280	240-280	220-260	230-280	230-280	220-260	220-260	200-250	200-250	230-280	240-280	230-280
注塑成型模具温度 Injection Mould Temperature		℃	80	80	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90	80-90

以上数据为实测典型值，仅供参考，公司可按客户要求提供特殊牌号。

			Volgamid 玻纤增强型尼龙66 GF Reinforced PA66								Volgamid 超韧尼龙66 SuperToughnessPA66	Volga mid 增强增韧尼龙66 GF Reinf orced & Toughness PA66	Volgamid阻燃尼龙66 Flame Retardart PA66		Volgamid 合金尼龙66/6 Alloy Series PA66/6
	测试标准 Test Standards	单位 Units	PA66G15NC201	PA66G20NC201	PA66G25NC201	PA66G25HSNC201	PA66G30NC201	PA66G30HBK201	PA66G40NC201	PA66G50NC201	PA66TNC103	PA66G30TNC201	PA66FRNC101	PA66G30FRNC202	PA66/6G33NC201
机械性能 Mechanical Properties															
洛氏硬度 Hardness,Rockwell	ISO 2039/2		119	118	119		118		119	118		119		119	120
拉伸断裂强度 Tensile Strength at Break(23℃)	ISO527	Mpa	129	158	165	185	192	195	226	243	48	160	78	170	202
断裂伸长率 Tensile Elongation at Break(23℃)	ISO527	%	3.4	3.2	3		3		2.8	2.7				3.0	
弯曲强度 Flexural Strength	ISO178	Mpa	188	219	240	245	270	267	329	360	63	225	110	240	265
弯曲模量 Flexural Modulus	ISO178	Mpa	4811	5988	7290	7000	8150	8308	11675	14282	1650	6900	2500	9800	8500
简支梁无缺口冲击强度 Charpy Impact Strength(23℃)	ISO179	KJ/M^2	39	66	69	99	92	96	100	108	NB	NB	75	80	NB
简支梁缺口冲击强度 Notched Charpy Impact Strength(23℃)	ISO179	KJ/M^2	6.3	8.9	11.1	12.5	13	16.1	16.9	19.3	83	17	4.5	10	14.3
热性能 Thermal Properties															
熔点 Melting Point	ISO3146C	℃	260	260	260		260		260	260	260	260	260	260	
热变形温度 Heat DeflectionTemperature 1.80MPa	ISO75	℃	244	249	252.3	252	255	255	258.4	259.6	68	245	75	245	244
物理性能 Physical Properties															
密度 Density	ISO1183	g/cm^3	1.23	1.29	1.32	1.31	1.35	1.36	1.44	1.54	1.09	1.38	1.19	1.42	1.38
灰份 Ash Content	ISO3451-4	%	15±1	20±1	25±1	25±1	30±2	31±1	40±2	50±2		30±2		30±2	33±2
吸水率 Water Absorption 24H/23℃	ISO62	%	1.5	1.4	1.3		1.3		0.96	0.8	1.1	1.5		1.5	
模塑收缩率 Molding Shrinkage	GB/T15585	%	0.7/1.2	0.4/0.1	0.3/0.9		0.3/0.9		0.3/0.9	0.2/0.7		0.3/0.8		0.7/1.2	0.3/0.8
电性能 Electrical Properties															
电痕化指数 Comp Track Index															
表面电阻率 Surface Resistivity	IEC 60093	Ω	10^{13}	10^{13}	10^{13}		10^{13}		10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{13}	10^{15}
阻燃性能 Flame Resistance Properties															
燃烧试验 Burning Test	UL-94	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	V0	V0	HB
灼热丝可燃指数 Glow-wire Flammability Index															
注塑工艺 Injection Technique															
烘干温度/时间(小时) Drying Temperature/Time(Hour)		℃	90/3-4	90/3-4	90/3-4	100/4-6	90/3-4	100/4-6	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	90/3-4	100/4-6
注塑成型温度范围 Injection Temperature Range		℃	250-290	250-290	250-290	250-290	250-290	250-300	250-290	250-290	250-290	250-290	250-290	250-290	250-290
注塑成型模具温度 Injection Mould Temperature		℃	80-90	80-90	80-90	80-120	80-90	80-120	80-90	80-90	80-90	80-90	80-90	80-90	80-120

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