

Technical Data Sheet

技术数据表

ZL-Q5501 (Partially Hydrogenated Styrene-Butadiene Block Copolymer 部分氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:

- ◆ Linear block copolymer
线型嵌段共聚物
- ◆ High strength and low viscosity
高强度与低黏度
- ◆ High tensile strength & High folding resistance
高拉伸强度、高耐折性
- ◆ High transparency
高透明性
- ◆ Recycling & Processing
可回收再加工
- ◆ Safety & Environmental Protection
安全环保

Typical Application/常规应用:

- ◆ Transparent shoe material
透明鞋底
- ◆ Transparent toy
透明玩具
- ◆ Children's wheel
儿童车轮

Typical Properties

一般性质

	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	49:51	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.93	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	495	400-550	GB/T 2794-2013
Hardness 硬度	Shore A	92	90-95	GB/T 531-2008
Form 外观	/	Puffy Particle 蓬松颗粒	/	Visualization 目测

Product liability information 产品责任信息

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技术数据表

ZL-Q5503 (Partially Hydrogenated Styrene-Butadiene Block Copolymer 部分氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:

- ◆ Linear block copolymer
线型嵌段共聚物
- ◆ High strength and low viscosity
高强度与低黏度
- ◆ Crosslinkable
可交联
- ◆ High folding resistance
高耐折性
- ◆ Recycling & Processing
可回收再加工
- ◆ Safety & Environmental Protection
安全环保

Typical Application/常规应用:

- ◆ Foam shoe material
发泡鞋材

Typical Properties

一般性质

	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	39:61	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.93	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	1300	1200-1500	GB/T 2794-2013
Hardness 硬度	Shore A	85	82-88	GB/T 531-2008
Form 外观	/	Puffy Particle 蓬松颗粒	/	Visualization 目测

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技术数据表

ZL-Q5536 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:
<ul style="list-style-type: none"> ◆ Linear hydrogenated block copolymer 线型氢化嵌段共聚物 ◆ Weather resistance 耐候性好 ◆ High tensile strength 耐热性好 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Shoe sole 鞋底 ◆ Toy 玩具 ◆ Plastic modification 塑料改性 ◆ Weight-reducing material 减重材料

Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	60:40	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.93	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.30	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 15wt%)	mPa·s	375	300-450	GB/T 2794-2013
Hardness 硬度	Shore A	85	82-88	GB/T 531-2008
Form 外观	/	puffy Particle or Powder 蓬松颗粒或粉末	/	Visualization 目测

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Technical Data Sheet

技术数据表

ZL-Q5536H (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:
<ul style="list-style-type: none"> ◆ Linear block copolymer 线型嵌段共聚物 ◆ Weather resistance 耐候性好 ◆ High tensile strength & High folding resistance 高拉伸强度、高耐折性 ◆ Excellent uv resistance 优异的抗紫外线性能 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ shoe material 鞋材 ◆ Plastic modification 塑料改性 ◆ Wire and cable cladding 电线电缆包覆材料

Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	60:40	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.93	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 15wt%)	mPa·s	500	400-600	GB/T 2794-2013
Hardness 硬度	Shore A	85	80-90	GB/T 531-2008
Form 外观	/	puffy Particle or Powder 蓬松颗粒或粉末	/	Visualization 目测

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技术数据表

ZL-Q5537 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ Linear hydrogenated block copolymer 线型氢化嵌段共聚物 ◆ Weather resistance 耐候性好 ◆ High tensile strength 耐热性好 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Shoe sole 鞋底 ◆ Toy 玩具 ◆ Plastic modification 塑料改性 ◆ Weight-reducing material 减重材料 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	60:40	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.93	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.30	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	600	550-650	GB/T 2794-2013
Hardness 硬度	Shore A	85	82-88	GB/T 531-2008
Form 外观	/	puffy Particle or Powder 蓬松颗粒或粉末	/	Visualization 目测

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技术数据表

ZL-S6550 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ Linear hydrogenated block copolymer 线型氢化嵌段共聚物 ◆ Weather resistance 耐候性好 ◆ High tensile strength 耐热性好 ◆ Good ozone resistance 耐臭氧性好 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Jelly wax 果冻蜡 ◆ Toy 玩具 ◆ Plastic modification 塑料改性 ◆ Adult erotica products 成人用品 ◆ Adhesive 胶粘剂 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	30:70	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.91	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.30	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	1500	1200-1800	GB/T 2794-2013
Hardness 硬度	Shore A	80	≥70	GB/T 531-2009
Form 外观	/	Powder 粉末	/	Visualization 目测
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Technical Data Sheet

技术数据表

ZL-S6551 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ Linear hydrogenated block copolymer 线型氢化嵌段共聚物 ◆ Good weather resistance 耐候性好 ◆ Good heat resistance 耐热性好 ◆ Good ozone resistance 耐臭氧性好 ◆ Good oil locking 锁油性好 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Coating material 包覆料 ◆ Wire and cable 电线电缆 ◆ Toy 玩具 ◆ Plastic modification 塑料改性 ◆ Shoe material 鞋材 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	33:67	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.91	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 10wt%)	mPa·s	1900	1500-2500	GB/T 2794-2013
Degree of hydrogenation 氢化度	%	99.5	≥99.0	ZL/GC-QM001
Hardness 硬度	Shore A	76	≥65	GB/T 531-2009
Form 外观	/	Powder 粉末	/	Visualization 目测

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技术数据表

ZL-S6552 (Hydrogenated styrene-butadiene block copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:
<ul style="list-style-type: none"> ◆ Linear hydrogenated block copolymer 线型氢化嵌段共聚物 ◆ Weather resistance 耐候性好 ◆ High tensile strength 耐热性好 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Plastic modification 塑料改性 ◆ Adhesives 胶黏剂 ◆ Coating Material 包覆材料 ◆ Wire & Cable 电线电缆 ◆ Toys 玩具

Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	30/70	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.91	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2009
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	380	250-550	GB/T 265-1998
Melt Index 熔融指数 (230°C, 5kg)	g/10min	13	8-16	GB/T 3682-2000
Hardness 硬度	Shore A	80	75-83	GB/T 531-2008
Form 外观	/	Pellet 颗粒	/	Visualization 目测

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技术数据表

ZL-S6554 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ Linear block copolymer 线型嵌段共聚物 ◆ High strength and low viscosity 高强度与低黏度 ◆ High tensile strength 高拉伸强度 ◆ High transparency 高透明性 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Plastic modification 塑料改性 ◆ Transparent toy 透明玩具 ◆ shoe material 鞋材 ◆ Wire and cable cladding 电线电缆包覆材料 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	30:70	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.91	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 10wt%)	mPa·s	300	200-500	GB/T 2794-2013
Hardness 硬度	Shore A	70	67-73	GB/T 531-2008
Degree of hydrogenation 氢化度	%	99.0	≥99.0	ZL/GC-QM001
Form 外观	/	Powder 粉末	/	Visualization 目测
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ZL-S6645 (Styrene-Ethylene/butylene Block Copolymer 苯乙烯-乙烯/丙烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ Star block copolymer 星型嵌段共聚物 ◆ High strength 高强度 ◆ High tensile strength 高拉伸强度 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Asphalt modification 沥青改性 ◆ Plastic modification 塑料改性 ◆ Mechanical parts 机械零部件 ◆ Waterproof roll 防水卷材 ◆ Adhesive 胶粘剂 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	12:88	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.94	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.30	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.30	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	330	300-350	GB/T 2794-2013
Hardness 硬度	Shore A	40	38-45	GB/T 531-2008
Form 外观	/	Dense pellet 实心颗粒	/	Visualization 目测

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技术数据表

ZL-Q5535 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:
<ul style="list-style-type: none"> ◆ Linear block copolymer 线型嵌段共聚物 ◆ High strength and low viscosity 高强度与低黏度 ◆ High tensile strength 高拉伸强度 ◆ Good compatibility with polar resins 与极性树脂相容性佳 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Adhesive application 胶黏剂应用 ◆ Flame retardant cable 阻燃电缆 ◆ Polymer modification, such as PP, PPO... 高分子改质, 如 PP, PPO 等

Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	58:42	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.96	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.30	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.30	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 15wt%)	mPa·s	1700	1300-2300	GB/T 2794-2013
Hardness 硬度	Shore A	84	81-89	GB/T 531-2009
Degree of hydrogenation 氢化度	%	98.5	≥97.0	ZL/GC-QM001
Form 外观	/	Particle/Powder 颗粒/粉末	/	Visualization 目测

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Technical Data Sheet

技术数据表

ZL-S6530 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ High molecular weight 高分子量 ◆ High oil filling ratio 充油倍率高 ◆ Low compression deformation 低压缩变形 ◆ High tensile strength 高拉伸强度 ◆ Stress cracking resistance 耐应力开裂 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Oil filled thermoplastic elastomer 充油 TPE ◆ Sealing strip 密封条 ◆ Toy 玩具 ◆ Polymer modification 高分子改质 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	34:66	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.92	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.50	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.50	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 10wt%)	mPa·s	2000	1500-2500	GB/T 2794-2013
Hardness 硬度	Shore A	77	72-82	GB/T 531-2009
Degree of hydrogenation 氢化度	%	99.3	≥99.0	O/SH.1085 1221-2006
Form 外观	/	powder 粉状	/	Visualization 目测

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Technical Data Sheet

技术数据表

ZL-S6553 (Styrene-Ethylene / Butene Block Copolymer 苯乙烯-乙烯/丁烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:			
<ul style="list-style-type: none"> ◆ Star block copolymer 星型嵌段共聚物 ◆ High strength 高强度 ◆ High tensile strength 高拉伸强度 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Asphalt modification 沥青改性 ◆ Plastic modification 塑料改性 ◆ Mechanical parts 机械零部件 ◆ Waterproof roll 防水卷材 ◆ Adhesive 胶粘剂 			
Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	12:88	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.94	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.30	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.30	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25°C, 20wt%)	mPa·s	330	200-400	GB/T 2794-2013
Hardness 硬度	Shore A	40	38-45	GB/T 531-2008
Form 外观	/	Pellet/Powder 颗粒/粉末	/	Visualization 目测

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Technical Data Sheet

技术数据表

ZL-S6557 (Hydrogenated Styrene-Butadiene Block Copolymer 氢化苯乙烯-丁二烯嵌段共聚物)

Features/特性:	Typical Application/常规应用:
<ul style="list-style-type: none"> ◆ Linear block copolymer 线型嵌段共聚物 ◆ low viscosity 低黏度 ◆ High transparency 高透明性 ◆ Recycling & Processing 可回收再加工 ◆ Safety & Environmental Protection 安全环保 	<ul style="list-style-type: none"> ◆ Polypropylene modification 聚丙烯改性 ◆ Adhesive 胶黏剂 ◆ Flexible tube 软管

Typical Properties 一般性质	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	13:87	/	GB/T 30914-2014
Specific Gravity 比重	g/cc	0.91	/	GB/T 1033-2010
Volatile Matter 挥发份	wt%	0.20	≤0.30	GB/T 24131-2018
Ash Content 灰份	wt%	0.15	≤0.30	GB/T 9345-2008
Toluene Solution Viscosity 甲苯溶液粘度(25℃, 20wt%)	mPa·s	1700	1000-1800	GB/T 265-1988
Hardness 硬度	Shore A	50	45-55	GB/T 531-2008
Degree of hydrogenation 氢化度	%	99.0	≥99.0	Q/SH.1085 1221-2006
Form 外观	/	pellet 颗粒	/	Visualization 目测

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Technical Data Sheet

技术数据表

ZL-S6567 (Styrene-Ethylene-Butylene-Styrene Block Copolymer 苯乙烯-乙烯-丁烯-苯乙烯嵌段共聚物)
Features/特性:

- ◆ Hydrogenated Polymer
氢化聚合物
- ◆ Softness
软质感
- ◆ Foamability
可发泡
- ◆ Good compatibility to polyolefin & EVA
与聚烯烃&EVA 较好的亲和性
- ◆ High Melt Fluidity
较好的熔体流动性
- ◆ Aging Resistance
耐老化性
- ◆ Safety & Environmental Protection
安全环保

Typical Application/常规应用:

- ◆ Shoe material
鞋材
- ◆ Toughening of Polyolefin
聚烯烃增韧改性
- ◆ Foamed Polymer
发泡聚合物

Typical Properties
一般性质

	Unit 单位	Typical Value 典型值	Range 范围	Test Method 测试方法
SM/ BD Ratio 苯乙烯/丁二烯质量比率	/	13:87	/	GB/T 30914-2014
Volatile Matter 挥发份	wt%	0.4	≤0.5	GB/T 24131-2018
Gel Content 凝胶含量	%	0.01	≤0.1	SH/T 1050-2014
Yellow Index 黄色指数	/	2	≤4	HG/T 3862-2006
Hardness 硬度	ShoreA	44	42-46	GB/T 531-2009
Tensile Strength 拉伸强度	Mpa	8	≥3	GB/T 528-2009
Elongation at Break 拉断伸长率	%	740	≥700	GB/T 528-2009
Melt Flow Index 熔融指数 (230°C, 5kg)	g/10min	3	2-6	GB/T 3682-2018
Form 外观	/	Particle/Powder 颗粒/粉末	/	Visualization 目测

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