

Powder ESY NAT MAC - Rilsan® POLYAMIDE 11 (PA11) Powder

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RILSAN

**FINE POWDERS** 

ESY NAT MAC

RILSAN® fine powders are specialty polyamide powders obtained from renewable resources. RILSAN® ESY range is designed for coating metal parts using the electrostatic spraying process. They provide superior protection against wear, impact, corrosion, chemicals as well as graffiti. Please consult Arkema literature for application method and recommendations. RILSAN® ESY NAT MAC provides good electrical insulation, even at low thickness. It can be used in electrical applications such as busbar coatings.

361 - 370 °F	性能	价值	单位	测试标准
358         °F           电仕能         第7         -         ASTM D150           电负质常数,1 kH2         3.7         -         ASTM D150           其数因素,100 kHz         ≤ 0.01         -         ASTM D150           表面电阻率,73 °F         2.4E14         Ohm per square         ASTM D257           方电强度         50         kV/mm         IEC 60112           加引動漏电起痕指数,CTI         600         -         IEC 60112           物末性能         -         -         -           Color         Natural         -         -           Particle Size Distribution, ≤ 20µm         20         %         ISO 13320           Pdatice Size Distribution, ≥ 100µm         1         %         ISO 13320           Pdatice Size Distribution, ≥ 100µm         1         %         ISO 13320           Pdatice Size Distribution, ≥ 100µm         1         %         ISO 13320           Pdati2         30         µm         ISO 13320           Pdati2         30         ○         ISO 1320           181         °C         ISO 1068         SE           Ege (txbi)         0.62         -         ISO 1068           Ege (txbi)         0.62         -         ISO 106	热性能			
e性能  电介质常数, 1 kHz  高, 73 °F  ASTM D150  耗散因素, 100 kHz  名, 73 °F  名, 4E14  Ohm per square ASTM D257  介电强度 50  kW/mm IEC 60243-1  1270  kV/in  IEC 60122  粉末性能  Color Natural - Color - Color - Color - Color - Color - Color	维卡软化温度, 50°C/h 50N	181	°C	ISO 306
电介质常数,1 kHz 3.7 - ASTM D150 耗散因素,100 kHz ≤ 0.01 - ASTM D150 表面电阻率,73 °F 2.4E14 Ohm per square ASTM D257 介电强度 50 kV/mm IEC 60243-1 1270 kV/in 相对耐漏电起痕指数, CTI 600 - IEC 60112 粉末性能 Color Natural Particle Size Distribution, ≤ 20µm 20 % ISO 13320 Particle Size Distribution, ≥ 100µm 1 % ISO 13320 Particle Size Distribution, ≥ 100µm 1 % ISO 13320 中值粒径 30 µm ISO 13320 中值粒径 30 µm ISO 13320 Puticle Size Distribution, ≥ 100µm 1 % ISO 13320 Particle Size Distribution, ≥ 100µm 1 % ISO 13320 Particle Size Distribution, ≥ 100µm 1 % ISO 13320 Puticle Size Distribution ≥ 100µm 1 % ISO 1320 Puticle Size Distribution ≥ 100µm 1 % ISO 1068 Size Distribution ≥ 100µm 1 % ISO 1068 Size Distribution ≥ 100µm 1 % ISO 1068 Size Distribution ≥ 100µm 1 % ISO 1068 Puticle Size Distribution ≥ 100µm 1 % ISO 1068 Puticle Size Distribution ≥ 100µm 1 % ISO 1068 Size Distribution ≥ 10µm 1 % ISO 1068 Size Distribution ≥ 10µm 1 % ISO 1068 Size Distribution ≥ 10µm 1 % ISO 100µm 1 % ISO 100µm 1 % ISO 100µm 1 % ISO 10µm 1 % ISO 10µm		358	°F	
耗散因素、100 kHz≤ 0.01-ASTM D150表面电阻率、73 °F2.4E14Ohm per squareASTM D257介电强度50kV/mmIEC 60243-11270kV/in1270kV/in相对耐漏电起痕指数、CTI600-IEC 60112粉末性能ColorNaturalParticle Size Distribution, ≤ 20µm20%ISO 13320Particle Size Distribution, ≥ 100µm1%ISO 13320中值粒径30µmISO 133200.00118in熠点183 - 188°CISO 13200.00118inVicat Point181°CISO 306密度 (松的)0.62-ISO 1068POWDER COATING PROPERTIES80 - 120µm-霍蓋率, 100µm0.12kg/m²-濱着半100µm0.12kg/m²-高1.25-ISO 1183	电性能			
表面电阻率, 73 °F2.4E14Ohm per squareASTM D257介电强度50kV/mmIEC 60243-11270kV/in1270相对耐漏电起痕指数, CTI600-IEC 60112粉末性能ColorNaturalParticle Size Distribution, ≤ 20µm20%ISO 13320Particle Size Distribution, ≥ 100µm1%ISO 13320Particle Size Distribution, ≥ 100µm1%ISO 13320Pdf粒径30µmISO 133200.00118inパなれ183 - 188°CISO 1218361 - 370°FVicat Point181°CISO 306358°F密度 (松的)0.62-ISO 1068POWDER COATING PROPERTIES80 - 120µm- <b>Recommended Coating Thickness</b> 80 - 120µm- <b>0.00315 - 0.00472</b> in <b>深盖率, 100µm</b> 0.12kg/m²- <b>泳料比重, 20°C</b> 1.25-ISO 1183	电介质常数, 1 kHz	3.7	-	ASTM D150
介电强度         50         kV/mm         IEC 60243-1           1270         kV/in           相对耐漏电起痕指数, CTI         600         -         IEC 60112           粉末性能         600         -         IEC 60112           Color         Natural         -         -           Particle Size Distribution, ≤ 20µm         20         %         ISO 13320           Particle Size Distribution, ≥ 100µm         1         %         ISO 13320           中值粒径         30         µm         ISO 13320           中值粒径         30         µm         ISO 13320           0.00118         in         ISO 13320           0.00118         in         ISO 13320           グ目数         183 - 188         °C         ISO 1218           361 - 370         °F         ISO 306         ISO 306           空度 (松的)         0.44         -         ISO 1068              密度 (包装的)         0.62         -         ISO 1068           密度 (包装的)         0.62         -         ISO 1068           POWDER COATING PROPERTIES         80 - 120         µm         -           電蓋率, 100µm         0.12         kg/m²         -           ①         0.12 <t< td=""><td></td><td>≤ 0.01</td><td>-</td><td>ASTM D150</td></t<>		≤ 0.01	-	ASTM D150
1270         kW/in           相対耐漏电起痕指数, CTI         600         -         IEC 60112           粉末性能           -           Color         Natural         -         -           Particle Size Distribution, ≤ 20µm         20         %         ISO 13320           Particle Size Distribution, ≥ 100µm         1         %         ISO 13320           Particle Size Distribution, ≥ 100µm         1         %         ISO 13320           Pdfa粒径         30         µm         ISO 13320           中值粒径         30         µm         ISO 13320           竹石和         %         ISO 13320         ISO 13320           竹石和         %         ISO 13320         ISO 13320           竹石和         %         ISO 1320         ISO 1320           竹石和         %         ISO 1320         ISO 1320           竹石和         %         ISO 1068         ISO 1068           密度 (松的)         0.44         -         ISO 1068           POWDER COATING PROPERTIES         ISO 1068         ISO 1068           Recommended Coating Thickness         80 - 120         µm         -           ①0.0315 - 0.00472         in         -         -	表面电阻率, 73 °F	2.4E14	Ohm per square	ASTM D257
相対耐漏电起痕指数, CTI 600 - IEC 60112 粉末性能 Color Natural Particle Size Distribution, ≤ 20µm 20 % ISO 13320 Particle Size Distribution, ≥ 100µm 1 % ISO 13320 中值粒径 30 µm ISO 13320 中值粒径 30 µm ISO 13320 0.00118 in 熔点 183 - 188 °C ISO 1382 0.00118 in Kater Point 181 °C ISO 1068 358 °F Vicat Point 181 °C ISO 306 358 °F SE <u>B</u> (松的) 0.44 - ISO 1068 SE <u>B</u> (松的) 0.62 - ISO 1068 POWDER COATING PROPERTIES Recommended Coating Thickness 80 - 120 µm - 0.00315 - 0.00472 in T <u>B</u> 盖率, 100µm 0.12 kg/m <sup>2</sup> - 涂料比重, 20°C 1.25 - ISO 1183	介电强度	50	kV/mm	IEC 60243-1
粉末性能         Color       Natural       -         Particle Size Distribution, ≤ 20µm       20       %       ISO 13320         Particle Size Distribution, ≥ 100µm       1       %       ISO 13320         中值粒径       30       µm       ISO 13320         0.00118       in       .       .         熔点       183 - 188       °C       ISO 1218         361 - 370       °F       .       .         Vicat Point       181       °C       ISO 306         変度 (松的)       0.44       -       ISO 1068         密度 (包装的)       0.62       -       ISO 1068         POWDER COATING PROPERTIES       80 - 120       µm       -         Recommended Coating Thickness       80 - 120       µm       -         0.00315 - 0.00472       in       .       .         覆蓋率, 100µm       0.12       kg/m²       -         涂料比重, 20°C       1.25       -       ISO 1183		1270	kV/in	
Color         Natural         -         -           Particle Size Distribution, ≤ 20µm         20         %         ISO 13320           Particle Size Distribution, ≥ 100µm         1         %         ISO 13320           中值粒径         30         µm         ISO 13320           中值粒径         30         µm         ISO 13320           竹植粒径         30         µm         ISO 13320           小         181         °C         ISO 1320           Yicat Point         181         °C         ISO 306           358         °F         SE         SE (松的)         0.62         -         ISO 1068           POWDER COATING PROPERTIES         80 - 120         µm         -         -           Recommended Coating Thickness         80 - 120         µm         -         -           0.00315 - 0.00472         in         -         -         -         -           覆蓋率, 100µm         0.12         kg/m²         -         -         -	相对耐漏电起痕指数, CTI	600	-	IEC 60112
Particle Size Distribution, ≤ 20µm         20         %         ISO 13320           Particle Size Distribution, ≥ 100µm         1         %         ISO 13320           中值粒径         30         µm         ISO 13320           巾值粒径         30         µm         ISO 13320           修         181         °C         ISO 13320           修         183 - 188         °C         ISO 1218           361 - 370         °F             Vicat Point         181         °C         ISO 306           358         °F              密度 (松的)         0.62         -         ISO 1068           POWDER COATING PROPERTIES         80 - 120         µm         -           Recommended Coating Thickness         80 - 120         µm         -           0.00315 - 0.00472         in <b>%</b> 0.12         kg/m²         -           添料比重, 20°C         1.25         -         ISO 1183				
Particle Size Distribution, ≥ 100µm         1         %         ISO 13320           中値粒径         30         µm         ISO 13320           0.00118         in            熔点         183 - 188         °C         ISO 1218           361 - 370         °F             Vicat Point         181         °C         ISO 306           358         °F             密度 (松的)         0.44         -         ISO 1068           POWDER COATING PROPERTIES         80 - 120         µm         -           Recommended Coating Thickness         80 - 120         µm         -           0.00315 - 0.00472         in         -         -           覆盖率, 100µm         0.12         kg/m²         -           涂料比重, 20°C         1.25         -         ISO 1183	Color	Natural	-	-
中値粒径30µmISO 133200.00118inin熔点183 - 188°CISO 1218361 - 370°F·Vicat Point181°CISO 306358°F·密度 (松的)0.44-ISO 1068密度 (包装的)0.62-ISO 1068POWDER COATING PROPERTIESRecommended Coating Thickness80 - 120 0.00315 - 0.00472µm-覆盖率, 100µm0.12kg/m²-流料比重, 20°C1.25-ISO 1183	Particle Size Distribution, $\leq 20 \mu m$	20	%	ISO 13320
0.00118       in         熔点       183 - 188       °C       ISO 1218         361 - 370       °F       ISO 306         358       °F       ISO 1068         密度 (松的)       0.44       -       ISO 1068         密度 (包装的)       0.62       -       ISO 1068         POWDER COATING PROPERTIES       80 - 120       µm       -         覆盖率, 100µm       0.12       kg/m²       -         流料比重, 20°C       1.25       -       ISO 1183	Particle Size Distribution, $\geq$ 100µm	1	%	ISO 13320
熔点183 - 188 361 - 370°CISO 1218 361 - 370Vicat Point181 358°FISO 306 358°F密度 (松的)0.44-ISO 1068 ISO 1068密度 (包装的)0.62-ISO 1068POWDER COATING PROPERTIES80 - 120 0.00315 - 0.00472µm-覆盖率, 100µm0.12kg/m²-流料比重, 20°C1.25-ISO 1183	—————————————————————————————————————	30	μm	ISO 13320
361 - 370       °F         Vicat Point       181       °C       ISO 306         358       °F       1SO 1068         密度(松的)       0.44       -       ISO 1068         密度(包装的)       0.62       -       ISO 1068         POWDER COATING PROPERTIES       80 - 120       µm       -         Recommended Coating Thickness       80 - 120       µm       -         0.00315 - 0.00472       in       -       -         覆盖率, 100µm       0.12       kg/m²       -         涂料比重, 20°C       1.25       -       ISO 1183		0.00118	in	
Vicat Point181°CISO 306358°F密度(松的)0.44-ISO 1068密度(包装的)0.62-ISO 1068POWDER COATING PROPERTIESRecommended Coating Thickness80 - 120µm0.00315 - 0.00472in-覆盖率, 100µm0.12kg/m²-流料比重, 20°C1.25-ISO 1183		183 - 188	°C	ISO 1218
358       °F         密度(松的)       0.44       -       ISO 1068         密度(包装的)       0.62       -       ISO 1068         POWDER COATING PROPERTIES            Recommended Coating Thickness       80 - 120       µm       -         0.00315 - 0.00472       in           覆盖率, 100µm       0.12       kg/m²       -         涂料比重, 20°C       1.25       -       ISO 1183		361 - 370	°F	
密度(松的)       0.44       -       ISO 1068         密度(包装的)       0.62       -       ISO 1068         POWDER COATING PROPERTIES            Recommended Coating Thickness       80 - 120       µm       -         0.00315 - 0.00472       in       -          覆盖率, 100µm       0.12       kg/m²       -         涂料比重, 20°C       1.25       -       ISO 1183	Vicat Point	181	°C	ISO 306
密度(包装的)       0.62       -       ISO 1068         POWDER COATING PROPERTIES         Recommended Coating Thickness       80 - 120       µm       -         0.00315 - 0.00472       in       -         覆盖率, 100µm       0.12       kg/m²       -         涂料比重, 20°C       1.25       -       ISO 1183		358	°F	
POWDER COATING PROPERTIES       80 - 120       μm       -         Recommended Coating Thickness       80 - 120       μm       -         0.00315 - 0.00472       in       -       -         覆盖率, 100μm       0.12       kg/m²       -         涂料比重, 20°C       1.25       -       ISO 1183	密度 (松的)	0.44	-	ISO 1068
Recommended Coating Thickness         80 - 120         µm         -           0.00315 - 0.00472         in         -           覆盖率, 100µm         0.12         kg/m²         -           涂料比重, 20°C         1.25         -         ISO 1183	密度 (包装的)	0.62	-	ISO 1068
0.00315 - 0.00472     in       覆盖率, 100µm     0.12     kg/m²     -       涂料比重, 20°C     1.25     -     ISO 1183	POWDER COATING PROPERTIES			
覆盖率, 100µm0.12kg/m²-涂料比重, 20°C1.25-ISO 1183	Recommended Coating Thickness	80 - 120	μm	-
涂料比重, 20℃ 1.25 - ISO 1183		0.00315 - 0.00472	in	
	覆盖率, 100μm	0.12	kg/m²	-
Persoz硬度 270 - ISO 1522	涂料比重, 20°C	1.25	-	ISO 1183
	Persoz硬度	270	-	ISO 1522



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## RILSAN® FINE POWDERS ESY NAT MAC

铅笔硬度	В	-	ECCA T4
Shore D Hardness	71	-	ISO 868
吸水率, 24h	≤ 1	%	ISO 62-1
耐磨性, 1000 周期 , 1 kg , CS-17 转轮	25	mg	ISO 9352
Dielectric Strength	50	kV/mm	IEC 60243-1
	1270	V/mil	
Dissipation Factor, 25 °C, 1MHz	0.01	-	ASTM D150
Dielectric Constant	3.7	-	ASTM D150
Surface Resistivity	2.4E14	W	ASTM D257
Fire Resistance on coated panel	V-0	-	UL 94
Salt spray test according to surface preparation recommended by ARKEMA	Good adhesion after 2000 hours	-	ISO 9227

Main applications

Metal Coating

Packaging
This grade is delivered in 20kg bag.

General Purpose

· Electrical applications - Busbars

Shelf Life

Two years from the date of delivery. For any use after this limit, please refer to our technical services.

加工方法	
涂覆, Electrostatic Spray	
供货形式	
粉料	
地区供应	
北美, 欧洲, 亚太, 中南美洲, 中东/非洲	

