

Product Datasheet



AKZONOBEL POWDER COATING

Product Description

AkzonNobel powder is a melt mixed nylon powder coating, which has excellent abrasion/wear resistance, good chemical and solvent resistance, good exterior durability, a low coefficient of friction, and Excellent machinability, and can be used from -40°C to 120°C.

AkzonNobel nylon powder is pre-applied at SLK product Processing Centers producing a completely dry, ready-to-use. Application of SLK Patch is a highly engineered process creating very precise placement of the thread locking compound. Generally, the placement of the Nylon Patch material is one to three threads from the end of the fastener to allow for trouble-free starting of the assembly.

SLK nylon patch is completely adjustable, repositionable, and reusable Up to 5 times. It can be applied to internally and externally threaded fasteners of all configurations. Once fused to the fastener, SLK nylon patch is highly resistant to most commercially available solvents, alcohol, gasoline, oil caustic soda, jet fuel, diesel fuel, etc.

Typical Properties

Chemical	Nylon
Cure Schedule	Preheat 650F/6 min
	Posthear 475F/1min
Recommended Film Thickness	10-12
Application Method	Fluid bed
Specific Gravity	1.13
Square Foot Coverage (ft ² /lb/mil)	170.17
60 Degree Gloss	40-80

Typical Performance

Hardness	ASTM D2240	70-80
Tensile Strength	ASTM D638	6000psi
Melting point	ASTM D789	356-374F(180-190C)
Salt Spray Resistance	ASTM B117	1000+hour-"x"scribe
Dielectric Strength	ASTM D149	800-1200 volts/mil
Elongation	ASTM D638	15%
Taber Abrasion	ASTM D4060	8-18mg loss

Characteristics

Storage and applications

All oil and grease, mill scale and rust, must be removed. Iron or Zinc phosphate pretreatment is recommended for optimum performance. Shelf life is permanent when stored in dry conditions at less than 80 F. Water quench is recommended to increase gloss and maximize physical properties. A surfactant(wetting agent) should be added to the water to Prevent spotting.

SLK Nylon Patch is used in a wide range of industries. Examples are

Included in the list as below:

- ◎ Consumer electronics
- ◎ Bicycle
- ◎ Mechanical equipment
- ◎ Hardware parts
- ◎ Appliances
- ◎ Set screw

Safety Precautions

When using, do not eat, drink, or smoke. Do not breathe the dust. In case of insufficient ventilation, wear suitable respiratory equipment.

For further information, please refer to the specific product Material Safety Data Sheet(MSDS).

Torque specifications

Fastener Size	Prevailing Torque Max.	1st Removal Prevailing Torque Min	5th Removal Prevailing Torque Min
M1.6-0.35	1.02	0.10	0.04
M2-0.4	2.04	0.20	0.10
M2.5-0.45	4.08	0.51	0.31
M3-0.5	6.12	1.43	0.61
M4-0.7	12.24	2.60	1.63
M5-0.8	23.50	3.50	2.25
M6-1.0	30.75	4.50	3.00
M8-1.25	102.00	9.18	5.92
M10-1.5	142.80	18.36	11.22

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Screws