SPGA
Special Plastic Grease - Adhesive

SPGA is a synthetic grease offering good low temperature performance and excellent compatibility with thermoplastics, including ABS and Polycarbonate. It has been formulated to a harder consistency (NLGI 3) than its predecessor SPG whilst additionally having a "tacky" adhesive characteristic which vastly improves its resistance to being squeezed out of the "contact zone".

- Excellent plastics compatibility; suitable for use with sensitive plastics (testing advised)
- Harder consistency than standard SPG; improved adhesive characteristic to stay in contact zone
- Very efficient mechanical lubricant; ideal for plastic-plastic lubrication
- Excellent at holding components in place during assembly

Approvals	**RoHS Compliant (2015/863/EU):**	**Yes**

Typical Properties

Colour	Light Brown
Density (g/ml)	0.9
Temperature Range (°C)	-40 to 125
Evaporation Weight Loss (% 7 days @ 100°C)	0.46
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (IP32 / ISO 2176 (°C))	>250
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	250
Cone Penetration Un-worked (ASTM D 217 @ 20°C)	200
Cone Penetration Un-worked (ASTM D 217 @ -40°C)	140
Consistency (NLGI)	3
Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40°C)	450
Oil Bleed / Separation (IP121)	5%
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Thickener	Clay
UV Trace	Yes

Base Oil Properties

Base Oil Type	PAO
Base Oil Viscosity @ 40°C (Kinematic Viscosity (cSt))	46
Base Oil Viscosity @ 100°C (Kinematic Viscosity (cSt))	7.8
Base Oil Viscosity Index (ASTM D 2270)	139
Pour Point (ASTM D 97 (°C))	-57
Flash Point (COC ASTM D 92 (°C))	>200

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Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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Mechanical Properties:

4 Ball Wear (mm)	2.425
Weld Load (kgf)	126

Packaging	Order Code	Shelf Life	Container Dimension
20Kg Bulk	SPGA20K	72 Months	305mm (Diameter) x 406mm (Height)
180Kg Bulk	SPGA200L	72 Months	

Directions for Use

Depending on packaging type, this lubricant can be applied by one of the following methods (although this list is not exhaustive):

Manually by way of a syringe
Semi-automated using syringe dispensing
Fully automated by way of a follower/pusher plate with dispensing system

Typical Product Applications

SPGA has been formulated to ensure compatibility with plastics and metals commonly used in the manufacture of electrical switches. It is particularly recommended as an assembly aid in switch manufacture (montage grease). It is also ideal to reduce wear in timers and other plastic/plastic friction points (e.g. photocopiers) and as a damping grease to improve the “feel characteristics” of switches.

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