ELECTROLUBE
THE SOLUTIONS PEOPLE

SPG
Special Plastics Grease

SPG is a synthetic grease offering outstanding low temperature performance and excellent compatibility with thermoplastics, including ABS and Polycarbonate, even at elevated temperatures. SPG is an efficient mechanical lubricant for plastics both with themselves and with metals. A harder, more adhesive version of SPG is available called SPGA.

- Excellent plastics compatibility; suitable for use with sensitive plastics (testing advised)
- Tacky characteristic; high tenacity to stay in contact zone
- Stays where placed even on vertical surfaces; 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)	0.6
Evaporation Weight Loss (% 7 days @ 125°C)	0.6
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (IP32 / ISO 2176 (°C))	>250
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	320
Cone Penetration Un-worked (ASTM D 217 @ 20°C)	300
Cone Penetration Un-worked (ASTM D 217 @ -40°C)	220
Consistency (NLGI)	1
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	No

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

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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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

Mechanical Properties:

4 Ball Wear (mm)	2.508
Weld Load (kgf)	126

Packing	Order Code	Shelf Life	Container Dimension
900g Bulk	SPG900G	72 Months	
10Kg Bulk	SPG10K	72 Months	300mm (Diameter) x 285mm (Height)
20Kg Bulk	SPG20K	72 Months	300mm (Diameter) x 445mm (Height)
52Kg Bulk	SPG52K	72 Months	
170Kg Bulk	SPG200L	72 Months	
35ml Syringe	SPG35SL	48 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

SPG 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).

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