

SPG Special Plastics Grease

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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.

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BS EN ISO 9001:2008
Certificate No. FM 32082

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

<u>Packing</u>	<u>Order Code</u>	<u>Shelf Life</u>	<u>Container Dimension</u>
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).

Revision 3: Jan 2019