



Technical Data Sheet

SPGA Special Plastic Grease - Adhesive

Product Description

SPGA is a synthetic oil based grease, offering good low temperature performance and excellent compatibility with thermoplastics, including ABS and Polycarbonate, even at elevated temperatures. 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”. This grease is an efficient mechanical lubricant for plastic-to-plastic and plastic-to-metal interfacing surfaces. It has an additional feature of having an extremely low tendency to bleed oil at elevated temperatures (up to 120°C) and consequently stays where it is applied: it is formulated with a UV dye to enable inspection of application.

Features

- Excellent plastics compatibility
- Hard (adhesive) NLGI 3 consistency
- Very low oil bleed
- Tacky characteristic
- High tenacity to stay in contact zone
- Stays where placed even on vertical surfaces
- Excellent at holding components in place during assembly

Approvals **RoHS Compliant (2002/95/EC):** **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

Mechanical Properties:

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

<u>Packing</u>	<u>Order Code</u>	<u>Shelf Life</u>	<u>Container Dimension</u>
20Kg Bulk	SPGA20K	72 Months	305mm (Diameter) x 406mm (Height)
180Kg Bulk	SPGA200L	72 Months	

Directions For Use

This lubricant can be applied manually, using a semi-automated system using syringe dispensing, or using fully automated dispensing equipment incorporating a follower/pusher plate.

Typical Product Applications

Special Plastics Grease (Adhesive) has been formulated to ensure compatibility with plastics and metals commonly used in the manufacture of electrical switches and is particularly recommended as an “assembly aid” in switch manufacture (montage grease) for holding small components in-place. 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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