PS5200 from SILEX

20 Shore A Fluorosilicone Rubber

Characteristics

PS5200 fluorosilicone rubber is noted for its good mechanical properties and resistance to harsh organic solvents and petroleum based fluids.

The vulcanising characteristics make it possible to achieve short cycle times in the production of rubber mouldings by compression, transfer and injection moulding. Due to the soft nature of this product, it is not recommended for extrusion.

Physical Characteristics

- Excellent fluid resistance
- Good compression set

Processing Characteristics

- Excellent handling when mixing
- Excellent moulding qualities

Special Characteristics

PS5200 fluorosilicone rubber from Silex Ltd offers superior resistance to organic solvents and petroleum based fluids. PS5200 readily accepts filler, additives and colours to modify its physical properties and appearance. While most fluorosilicone rubbers are sticky, PS5200 offers superior handling with improved mill and mould release, making it suitable for moulded, extruded or calendared applications.

Processing

Recommended Curing Agent Levels:

- 1.5 parts: 2,4-dichlorobenzoyl peroxide (50% active in silicone paste) per 100 parts of base.
- 0.7 parts: dicumyl peroxide (98% active) per 100 parts of base.
- 0.6 parts: 2,5-di(t-butylperoxy) -2,5-dimethylhexane (100% active) per 100 parts of base.

Properties

Typical property values are not intended for use in the preparation of specifications. Please contact Silex Ltd for assistance before writing specifications on PS5200.

Storage

PS5200 has a shelf life of at least 12 months when stored below 32°C in the tightly closed original container. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. However, the properties relevant for the intended use must be verified for quality assurance reasons.

Product Data*

Property	Test Method	Value
		PS5200
Appearance	WSTM-1279	Cloudy
Density (g/cm³), 25°C	ASTM D792	1.38
Hardness, Shore A	ASTM D2240	20
Tensile Strength (N/mm²)	ASTM D412	6.9
Elongation at Break (%)	ASTM D412	500
Tear Strength, die B (N/mm)	ASTM D624	10.5
Compression Set, 22 h at 175°C (%)	ASTM D395	15

*Properties obtained by adding 1.0 parts: 2,5-Di(t-butylperoxy)-2,5-dimethylhexane (50% active) per 100 parts of base; press cured 10 min/177°C and no post cure. Note: Compression set results obtained after 4 hour/400°F post cure.

Additonal Information

PS5200 fluorosilicone rubber is available in 1 kg boxes up to 540 kg boxes. Orders may be placed directly to:

Silex Ltd
Units 4 & 5 Broxhead Trading Estate
Lindford, Nr. Bordon
Hampshire, GU35 0NY

To speak with a technical representative or for information on other Silex products call 0044 1420 488042.

Safety information

For specific information regarding the safe handling of this material, please refer to the Material Safety Data Sheet.

For technical, quality, or product safety questions, please contact:

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