

FSL7661

Product Description

FSL 7661 is translucent two-component silicone rubbers for use in liquid injection molding to produce high performance elastomeric parts. It is off-white, but easily pigmentable. Due to certain fluoro content in the polymer, FSL 7661 is suitable for applications exposed to lubricants, automotive fuels and solvents. Compared to standard liquid silicone rubbers without fluorine content the oil and fuel resistance of FSL 7661 is greatly improved.

FSL 7661 is particularly suitable for the manufacturing of parts, where improved resistance to automotive fluids is needed like connector gaskets or parts in air-intake systems. Parts made from FSL 7661 can generally be used in technical applications without post-cure, but do not comply with regulations applicable for parts, which are intended for the pharmaceutical or food industry.

Key Features and Typical Benefits

- Improved resistance to oils
- Balanced fluid and solvent resistance
- Low compression set
- Fast curing
- High thermal stability
- Excellent low temperature flexibility
- Ageing resistance
- Easily colorable

Typical Physical Properties

			FSL 7661	
			comp. A	comp. B
Appearance			translucent	translucent
Viscosity, $\gamma = 10^{-5}$ at 20°C	DIN 53 018	Pa · s	500	500
The pot-life of the mixture of the two components (closed vessel) at 20°C is three days. Increased temperatures reduce the pot-life.				

The mechanical properties were measured on test sheets (2 mm). These were produced by mixing the components A & B in 1:1 ratio and curing the resulting mixture 10 min at 175°C.				
			FSL 7661	
			as cured	post-cured 4h at 200°C
Density	DIN 53 479 A	g/cm ³	1.26	1.26
Hardness	DIN 53 505	Shore A	60	61
Tensile strength	DIN 53 504 S2	N/mm ²	7.5	6.5
Elongation at break	DIN 53 504 S2	%	300	250
Tear strength	ASTM D 624 die B	N/mm	32	28
Comp. Set 22h at 175°C	ISO 815	%	23	16
The special cure characteristics of the materials might make it necessary to apply a short post cure (30 min at 200°C) to parts in order to achieve the low compression set properties. The cure conditions and the process for making test sheets do not always correspond with the molding conditions used in industrial molding processes.				

Typical properties are average data and are not to be used as or to develop product specifications.

Processing Recommendations

FSL 7661 is kit-matched product. As such, work time (pot-life), cure time, and final cured properties can only be assured if the batch numbers on the A component and B component are identical and the material is mixed at a ratio of 1:1.

Pumping and meter-mixing systems for FSL 7661 and appropriate injection molding machines are available from a number of manufacturers, most of whom will provide a complete integrated system (exclusive of the mould itself).

For further information please contact Momentive performance materials.

Containers

FSL 7661 is available in 2x20 kg pail kits.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular application(s).

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