

# LAUR SILICONE

## LAUR FR-21XX SERIES SILICONE RUBBER

The Laur FR-21XX series of materials are designed specifically to meet the need for stringent flame inhibition requirements of UL<sup>®</sup>94 V-0. The FR-21XX series of materials are built to be cost effective while maintaining flame retardancy. The flame retardant properties are achieved using innovative technology without the need of polybrominated diphenyl ethers, hexabromocyclododecane additives, nor other brominated compounds. These silicone rubber compounds are characterized by moderate tensile strength, tear strength, and good heat aging properties. They are expected to retain physical properties up to 392° F (200° C).

### TYPICAL PROPERTIES

Material	FR-2140	LFR-2150	FR-2160	FR-2170
Durometer, Shore A	40	50	60	70
Tensile, psi (MPa)	850 (5.8)	825 (5.6)	875 (6.0)	800 (5.5)
Elongation, %	650	600	550	400
Tear, die B, ppi (kN/m)	100 (17)	185 (32)	200 (35)	100 (17)
Modulus at 100% Elongation, psi (MPa)	90 (0.6)	200 (1.4)	250 (1.7)	400 (2.7)
Specific Gravity, g/cc	1.42	1.45	1.46	1.52
Standard Color	Brown	Brown	Brown	Brown

All slabs molded 10 minutes @ 340 °F

These compounds are designed to comply with the RoHS Directive 2002/95/EC and the updated Directive 2010/122/EU. This information is based on available information from our raw material suppliers. If any components listed in the European Directive are in the materials above, they are present in the raw materials only at trace levels and will not materially impact compliance with Directives 2002/95/EC and 2010/122/EU.

The properties listed here are typical values and are not intended to be used for writing specifications. For assistance in selecting a compound for a specific application, please contact our technical department. These compounds are not specifically approved by Underwriters Laboratories and the specific molded part must be tested by a certified laboratory for UL<sup>®</sup> approval. Laur Silicone nor its affiliates are **not** certified test labs of Underwriters Laboratories.

### SHELF LIFE

When stored below 90 °F, this series of materials has a shelf life of 3 months from date of sale.

FR-21XX Series

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