

NSRI.5 – Tooling Rubber

- NSRI.5 is a non-silicone rubber used to manufacture reinforced match tooling intensifiers and flexible mandrels for composite consolidation
- NSRI.5 intensifiers provide uniform pressure distribution during autoclave curing and can create toolside quality components on the vacuum bag side of the lay-up
- NSRI.5 exhibits excellent tack at room temperature and easily bonds to itself without the need for special surface treatment
- Excellent thermal properties allows for operation at 176°C, 100psi cures

NSRI.5 should be reinforced with a suitable minimum volatile epoxy prepreg to remain dimensionally stable. As NSRI.5 is a non-release rubber, it is necessary to bond either Aerovac's A5000CNPE etched FEP film or VB3 Cast PTFE film to the toolside surface of the NSRI.5 lay-up

Aerovac can offer full fabrication of NSRI.5 parts to provide for your consolidation requirements. The physical properties shown below were obtained on 2mm thick moulded ASTM samples. They are typical of NSRI.5, but they should not be used to set Quality Control specification minimum requirements

PHYSICAL PROPERTIES

- | | |
|----------------------------|-----------------------|
| • Maximum Cure Temperature | 205°C |
| • Hardness | 55 shore A |
| • Tensile Strength | 6.5 MN/m ² |
| • Elongation at Break | 700% |
| • Tear Strength | 25.1 N/m |
| • Specific Gravity | 1.21 |
| • Colour | Black |

AVAILABILITY & PACKAGING

- | | |
|------------------|--------|
| • Thickness | 1.50mm |
| • Standard width | 1000mm |

STORAGE & HANDLING

- Store cured rubber in protective packaging away from sharp objects

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