



## LR1700 Ablative Molding Compound

LR1700 is a composite molding compound produced from a carbon filled MIL-R-9299 phenolic resin matrix and a 1" chopped PAN precursor carbon fabric. The material is designed to meet and/or exceed the thermal and insulation requirements of solid propulsion rockets.

### Chemical Properties of LR1700

Property	Value	Test Method
Resin Solids, %	31-37	QCP-R-5
Volatile, %	3-7	QCP-V-1
Flow @ 2000 psi, %	10-20	QCP-F-2
Filler Content, %	10-20	QCP-R-5

### Physical Properties of LR1700

Property	Value	Test Method
Specific Gravity	1.54	ASTM-D-792
Flexural Strength, psi	43,000	ASTM-D-638
Compression Strength, psi	39,000	ASTM-D-695
Harness, Barcol	77	
Residual Volatile, % max	2.5	

### Molding Cycle

Press cured at 325° F using 1000 psi pressure for 2 hours.