

Preliminary Data Sheet  
QC-2550 LD NT (126-40-136)  
Engineered Structural Composite (ESC) Molding Compound

QC-2550 LD NT 126-40-136 is a fiber glass reinforced phenolic ESC molding compound. It exhibits outstanding low flammability characteristics. QC-2550 LD NT 126-40-136 is recommended for applications such as aircraft interiors and public transportation components requiring composite materials having very low flammability, low smoke, and minimal generation of toxic gases.

TYPICAL PROPERTIES -- UNCURED

Form . . . . .	Roll, 18" wide, .070" thick	Glass Content . . . . .	35%
Colors . . . . .	Natural	Glass Length . . . . .	1 inch
Shelf Life: @ 0°F . . . . .	6 months	and @ 40°F . . . . .	2 months

TYPICAL PROPERTIES -- CURED

<u>Test</u>	<u>Procedure</u>	<u>Value</u>
Specific Gravity	ASTM D-792	1.35
Shrinkage, inch/inch (mm/mm)	ASTM D-570	0.0015 (0.0015)
Flexural Strength, psi (MPa) <sup>1</sup>	ASTM D-790	40,000 (275)
Flexural Modulus, psi (GPa) <sup>1</sup>	ASTM D-790	1.6 x10 <sup>6</sup> (11)
Tensile Strength, psi (MPa) <sup>1</sup>	ASTM D-638	20,000 (138)
Izod Impact, notched, ft.lb./in. (J/M)	ASTM D-256	19 (1014)
<u>FAR/JAR25.853. Amendment 25-116</u>	<u>Tested Thickness</u>	
OSU Heat Release KW / M <sup>2</sup>	0.05"	32 (2 min), 56 (peak)
Vertical Burn (60 sec)	0.04"	0 seconds, 2.0 inches
Smoke Density Ds	BSS7238	10
Toxicity	BSS7239	Pass

Since QC-2550 LD NT does not contain an acid catalyst, the use of external mold release agents is not normally required once the mold is conditioned. The use of one or more breathe cycles is recommended to allow the water generated during the curing reaction to escape.

The carrier film may tend to cling to the SMC. It is easiest to remove using a quick stripping motion, or the sheet may be cooled slightly.

Precautions: For maximum shelf life, QC-2550 LD NT must be stored cold. Storage for more than a few days at temperatures above 75°F may result in advancement of the material. QC-2550 LD NT contains glass fibers and should be handled carefully in order to minimize skin contact. Molding areas should be well-ventilated to minimize exposure to fumes. Presses and preheaters must be provided with local exhaust to remove vapors from work areas. If adequate ventilation is not available, a respirator approved for removing organic vapor must be used.

WARRANTY -- The above information is offered for your consideration, investigation, and verification. No warranty, expressed or implied, is given, nor is freedom from any patents owned by Quantum Composites, Inc. or others implied. Final determination of the suitability of this material is the sole responsibility of the buyer. Contact our sales representative for assistance in developing procedures to fit individual requirements.

<sup>1</sup>Tensile and Flexural Properties are determined using net shape molded specimens. Values obtained on cut specimens will typically be lower