

Compressive Properties of Rigid Cellular Plastics (Structural Foam)

Reference Standards: ASTM D1621 and ISO 844

This test method provides information regarding the mechanical behavior of rigid cellular materials under compressive loads. This test makes it possible to compute the compressive stress at any load (such as compressive stress at proportional-limit load or compressive strength at maximum load) and to compute the modulus of elasticity.

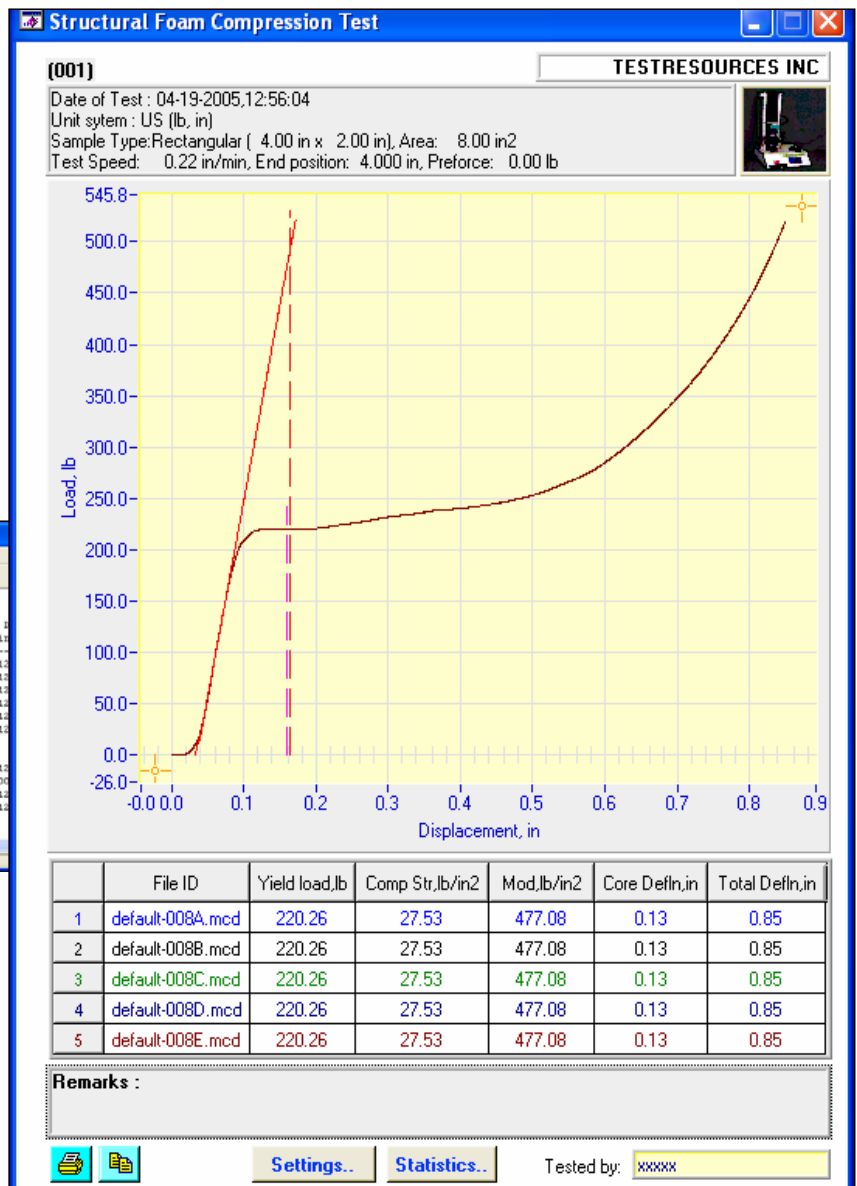
Compression tests provide a standard method of obtaining data for research and development, quality control, acceptance or rejection under specifications, and special purposes.



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Typical Configuration

- 650M or 1000M Test Machine
- Load cell sized to test samples
- M Plus Software
- M Plus D1621 Module
- G223 Compression Platen – one swivel and one fixed.
- Extensometer (optional)



default_stat - WordPad

Assignment File : c:\TR105\FoamTester\51621\data\default.mcd

S/No.	DataFile	PeakLoad lb	Total Defn in	YieldLoad lb	Comp Str lb/in ²	Modulus lb/in ²	Core Defn in
1	default-008A.mcd	519.76	0.850	220.26	27.53	477.1	0.13
2	default-008B.mcd	519.76	0.850	220.26	27.53	477.1	0.13
3	default-008C.mcd	519.76	0.850	220.26	27.53	477.1	0.13
4	default-008D.mcd	519.76	0.850	220.26	27.53	477.1	0.13
5	default-008E.mcd	519.76	0.850	220.26	27.53	477.1	0.13
6	default-008F.mcd	519.76	0.850	220.26	27.53	477.1	0.13
Average		519.76	0.850	220.26	27.53	477.1	0.13
Std. Dev		0.00	0.000	0.00	0.00	0.0	0.00
Maximum		519.76	0.850	220.26	27.53	477.1	0.13
Minimum		519.76	0.850	220.26	27.53	477.1	0.13