

Figure 1a. Hypothetical isochrones constructed from results of creep tests.

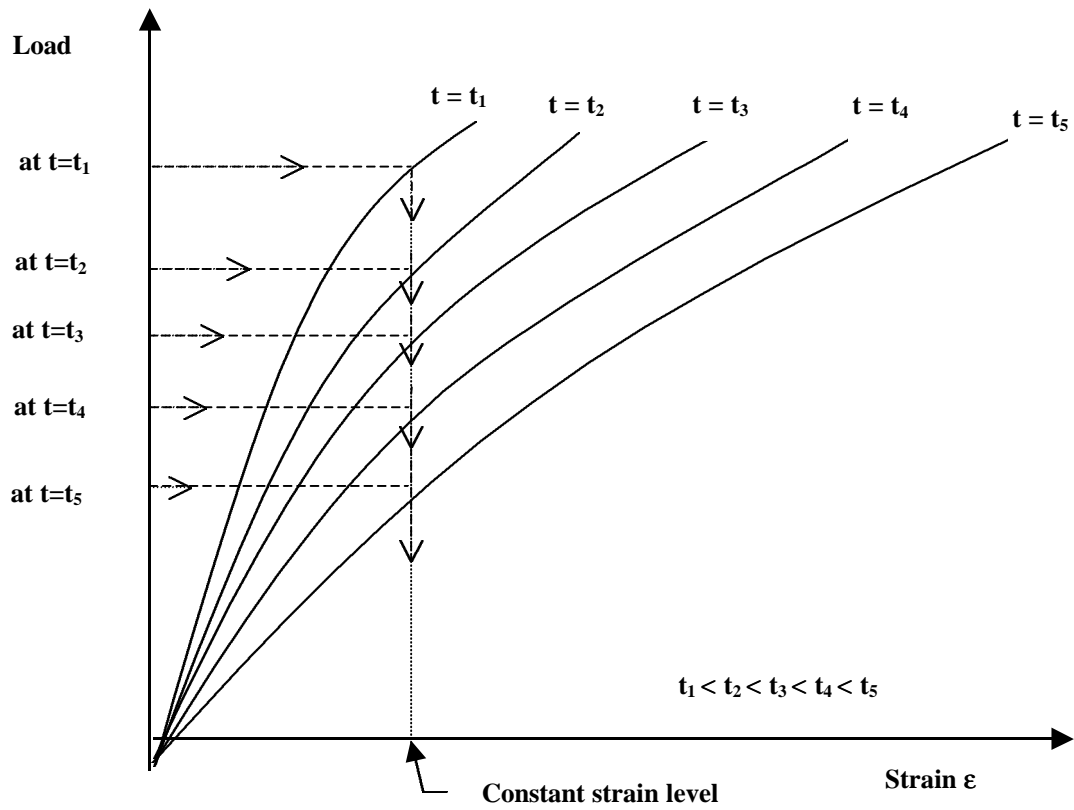


Figure 1b. Hypothetical relaxation response predicted from creep isochrones.

Table 1. Physical properties of the geogrids tested.

Geogrid designation	Physical property			
	Polymer type	Coating type	Manufacturing process	Ultimate short term strength (kN/m)
A1	PET	Acrylic	Woven	41
A2	PET	Acrylic	Woven	106
A3	PET	Acrylic	Woven	201
B1	PET	PVC	Woven	36
B2	PET	PVC	Woven	59
B3	PET	PVC	Woven	97
C1	HDPE	None	PSD	38
C2	HDPE	None	PSD	49
C3	HDPE	None	PSD	72
D1	PP	None	PSD	13
D2	PP	None	PSD	39

Notes: PSD = punched sheet drawn; PET = polyester; HDPE = high density polyethylene; PP = polypropylene; PVC = polyvinyl chloride.

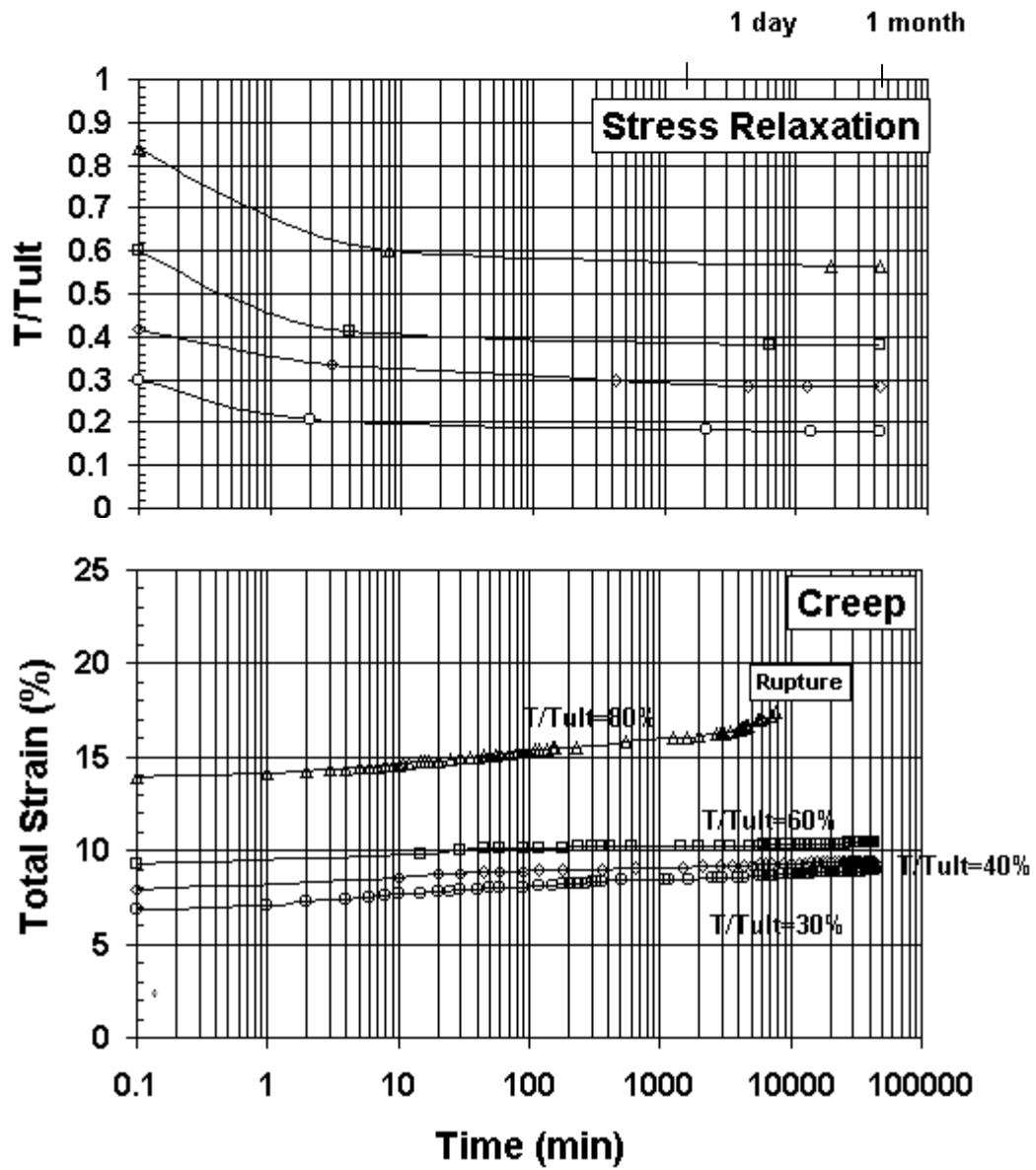


Figure 2. Stress relaxation and creep test results for Geogrid A1.

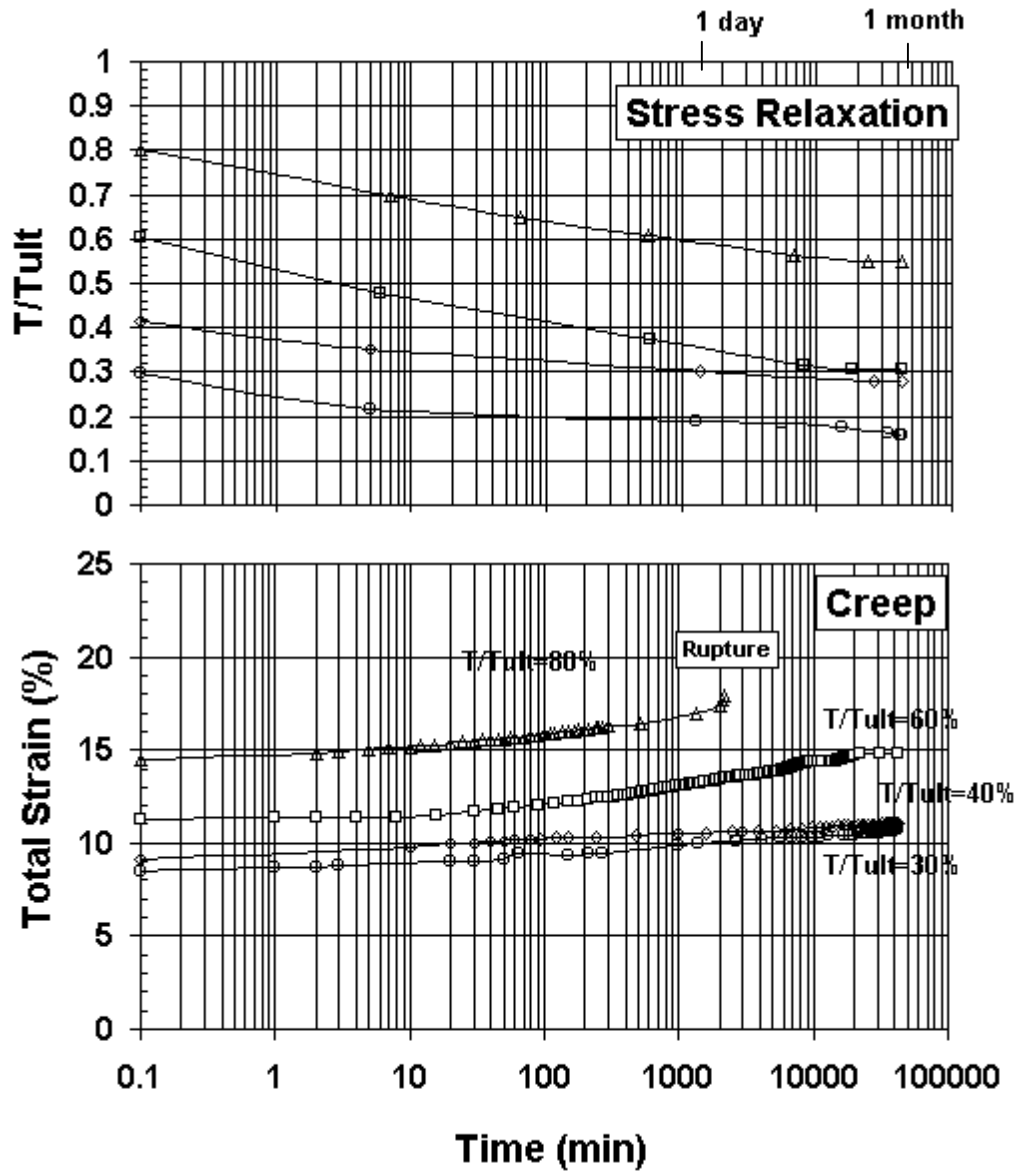


Figure 3. Stress relaxation and creep test results for Geogrid A2.

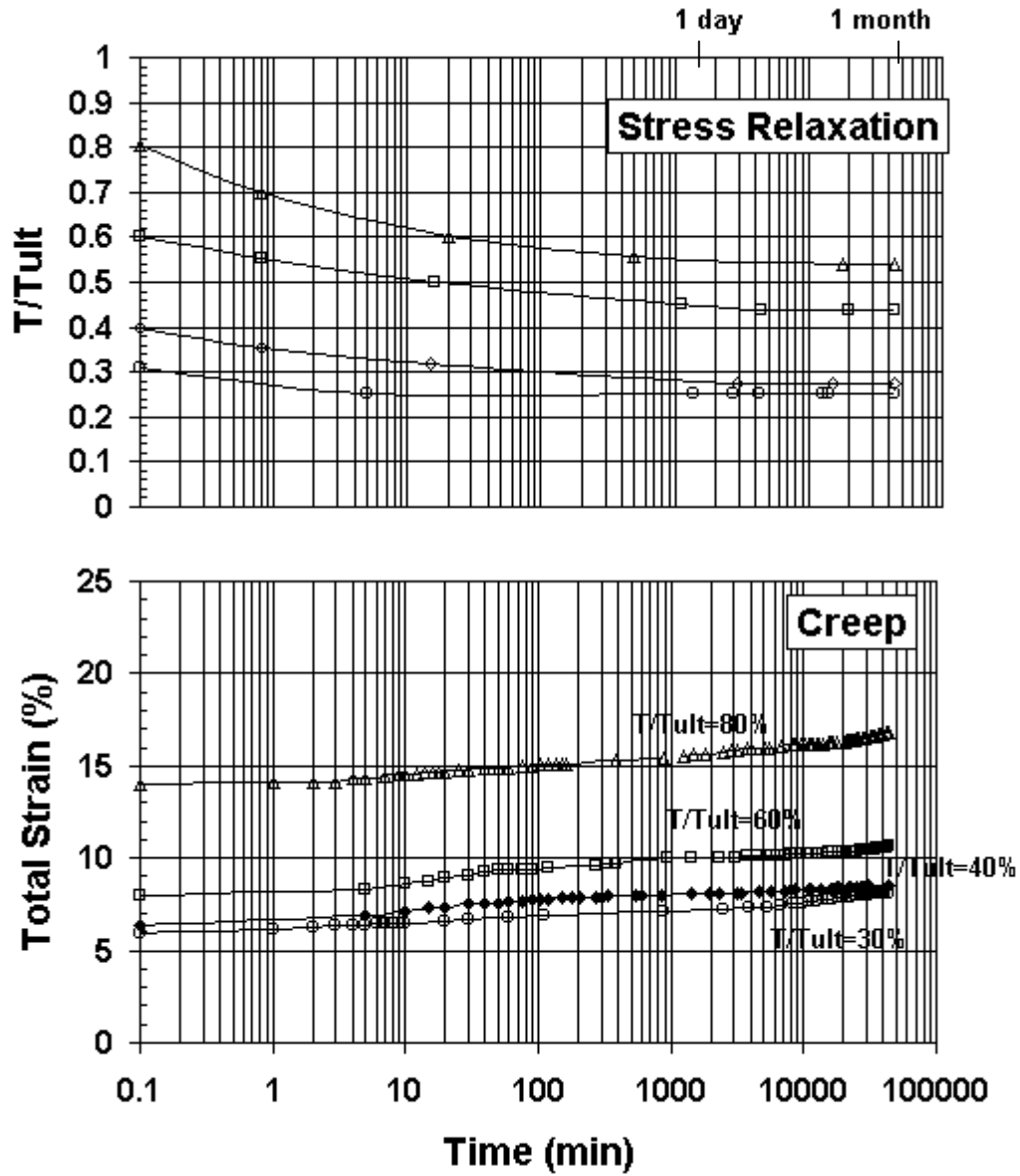


Figure 4. Stress relaxation and creep test results for Geogrid A3.

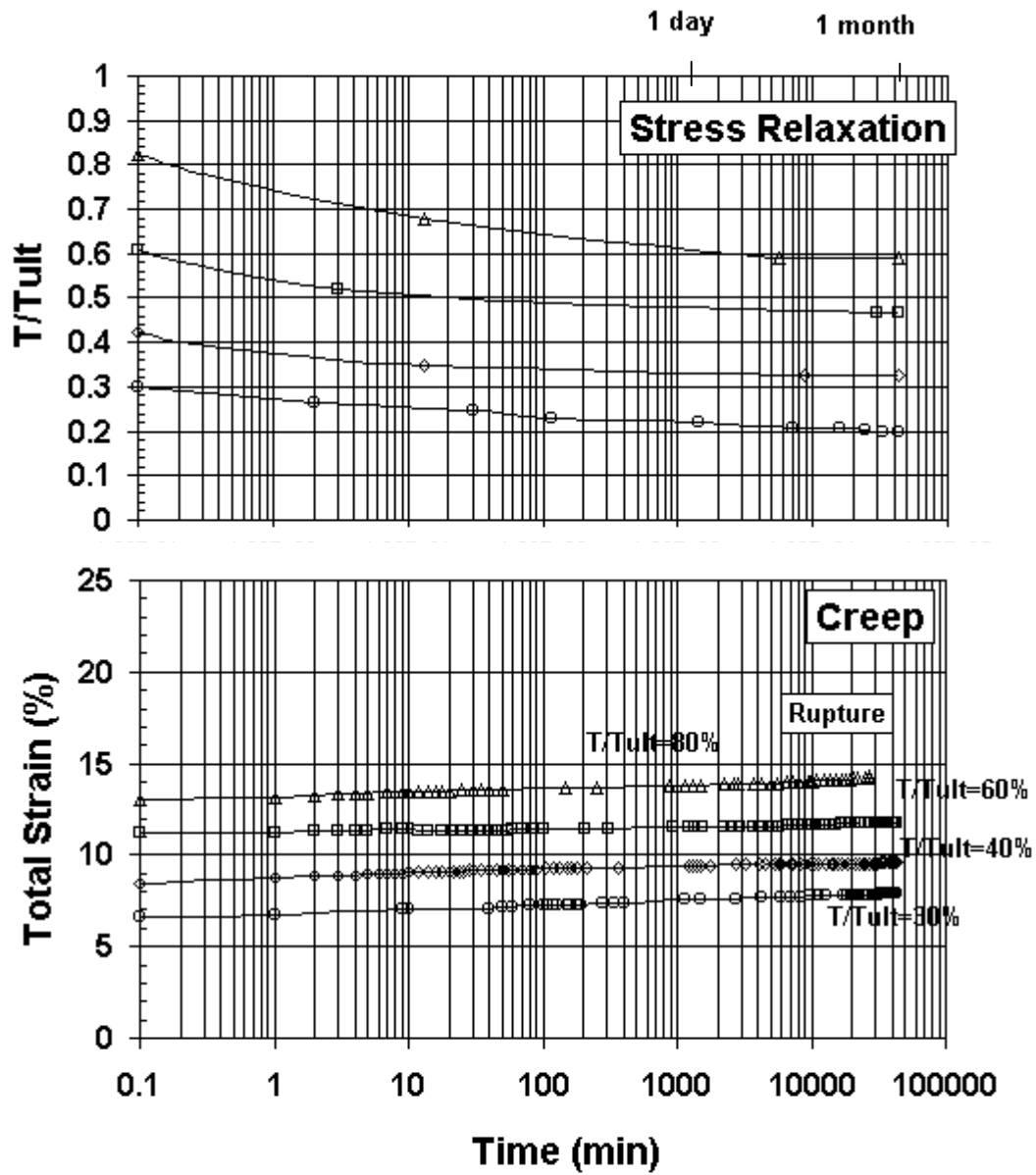


Figure 5. Stress relaxation and creep test results for Geogrid B1.

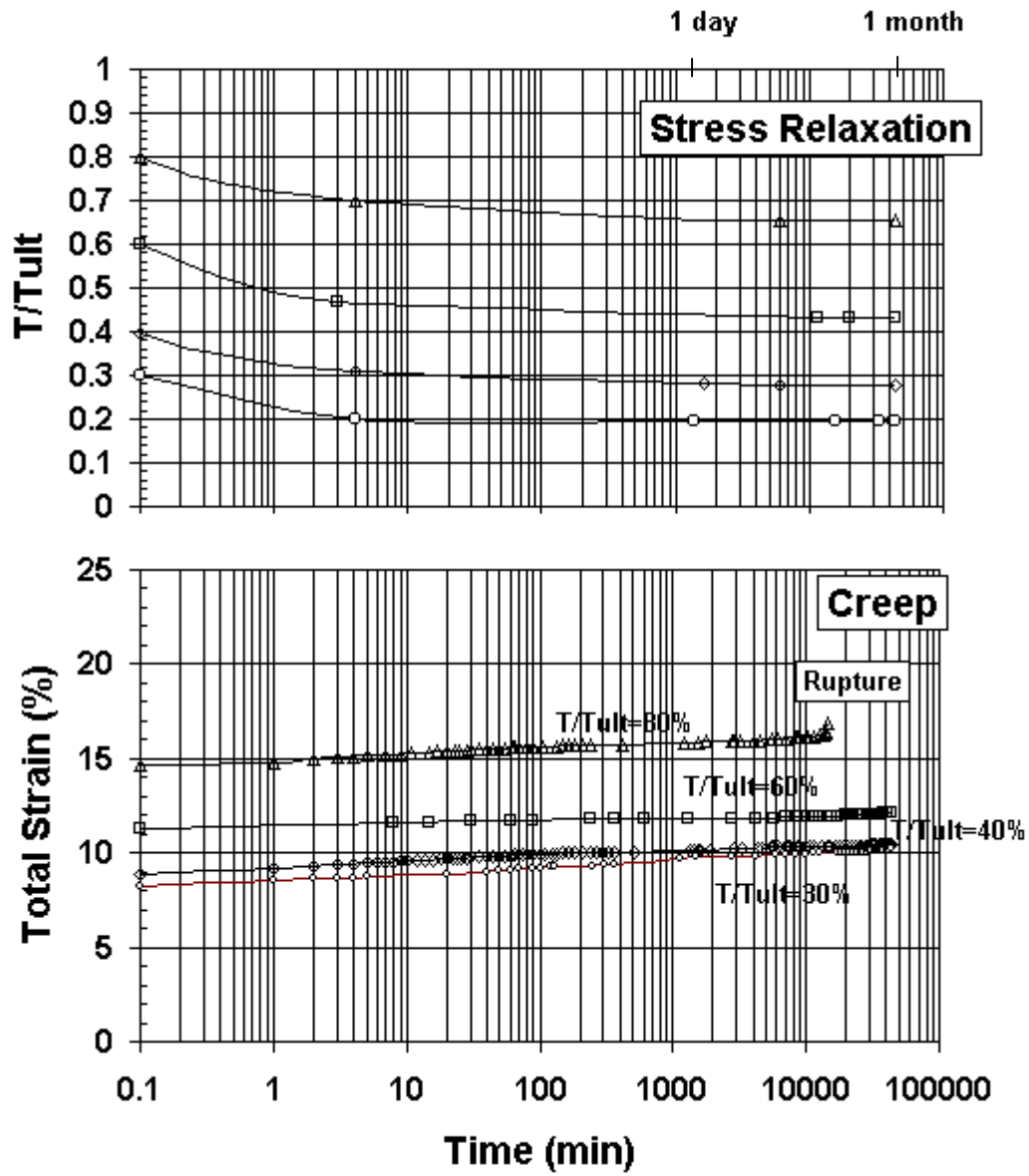


Figure 6. Stress relaxation and creep test results for Geogrid B2.

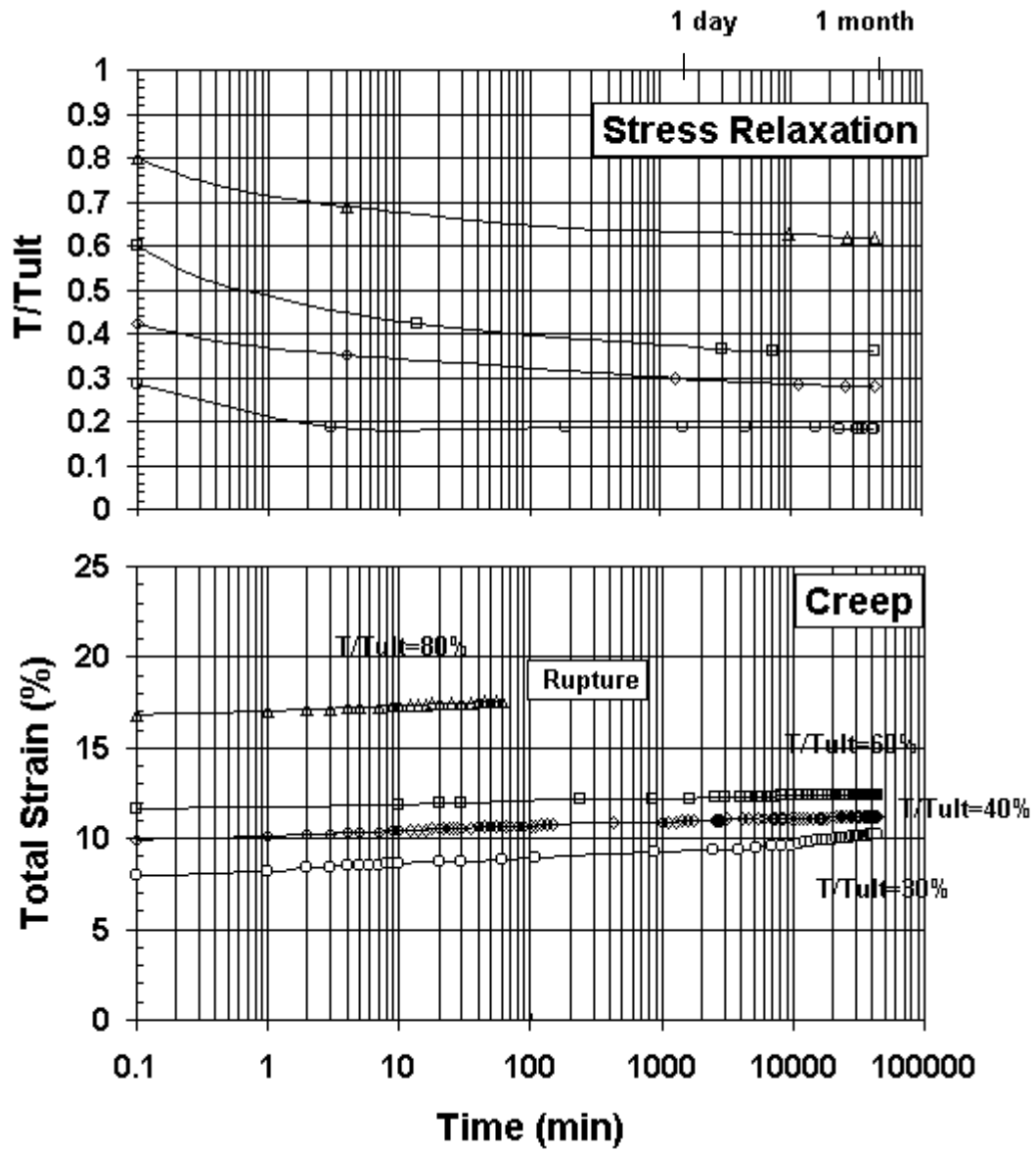


Figure 7. Stress relaxation and creep test results for Geogrid B3.

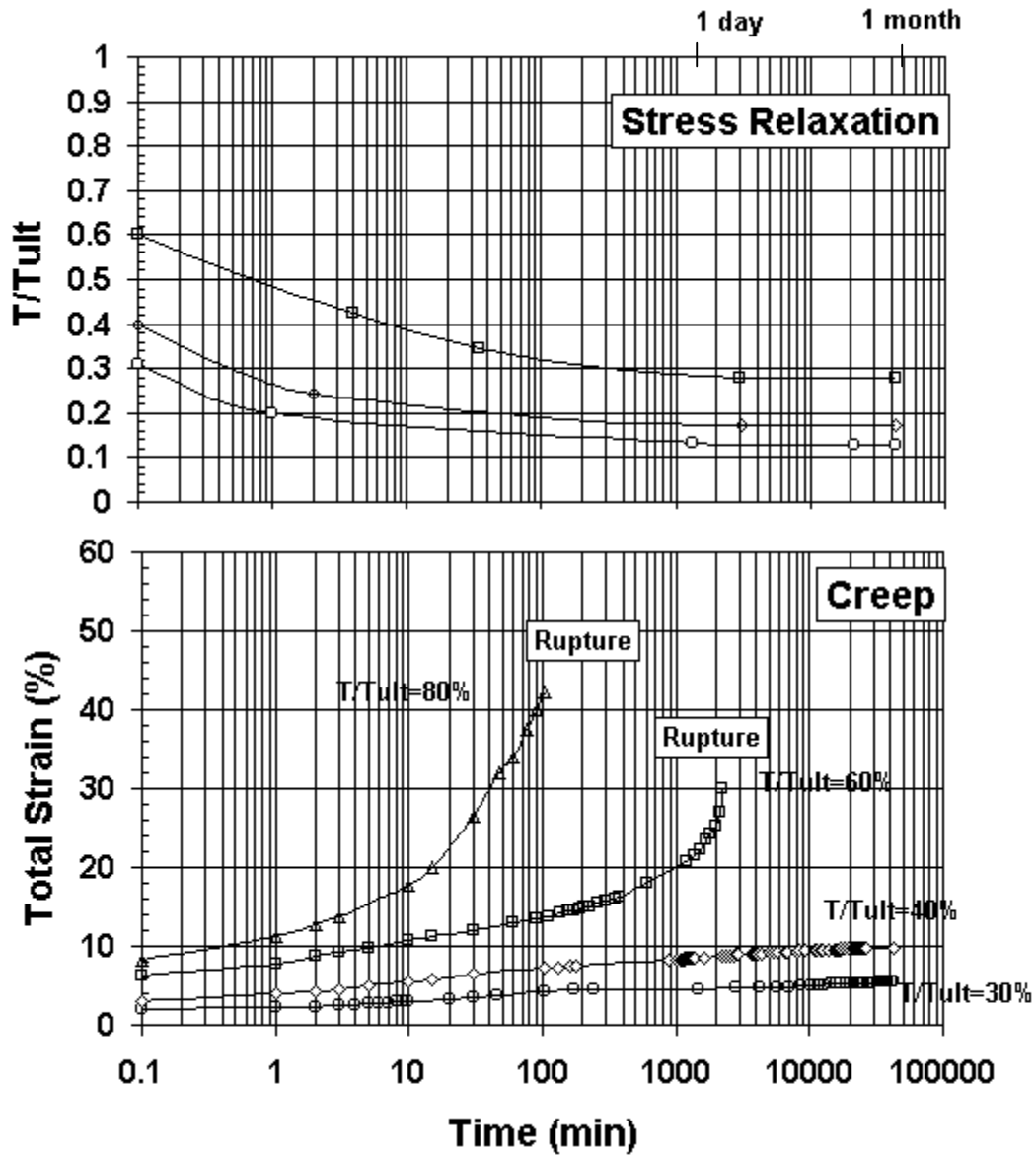


Figure 8. Stress relaxation and creep test results for Geogrid C1.

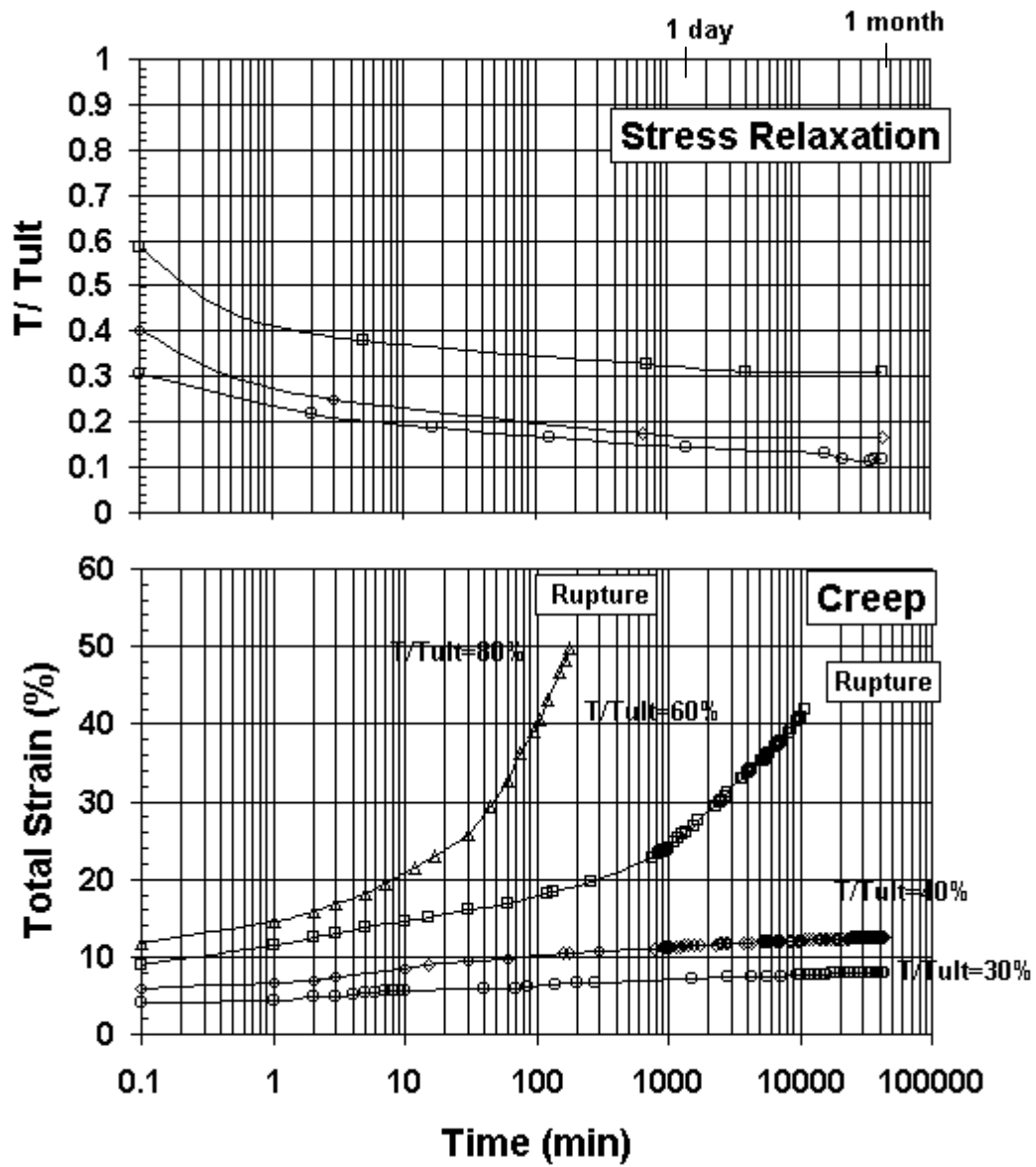


Figure 9. Stress relaxation and creep test results for Geogrid C2.

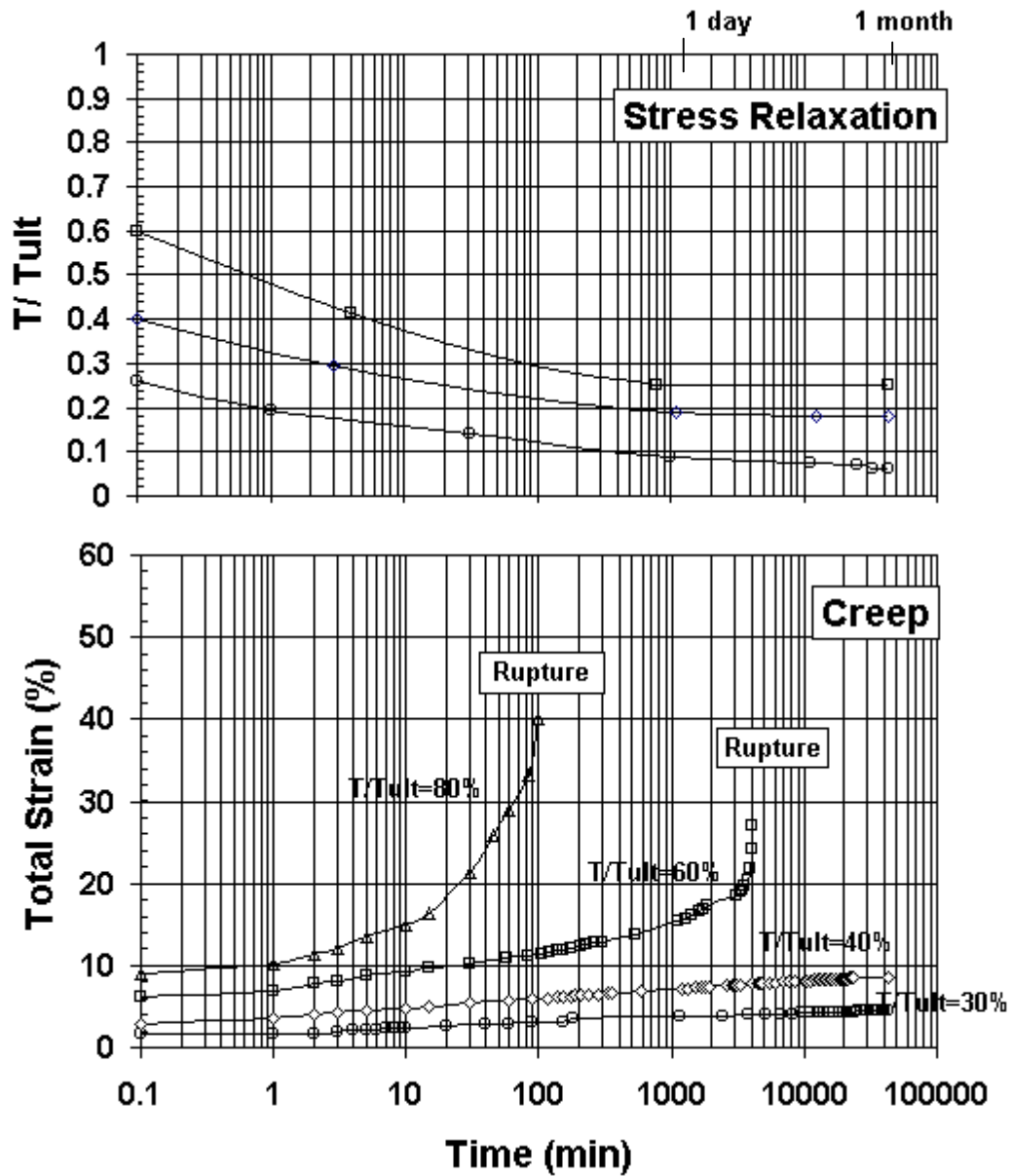


Figure 10. Stress relaxation and creep test results for Geogrid C3.

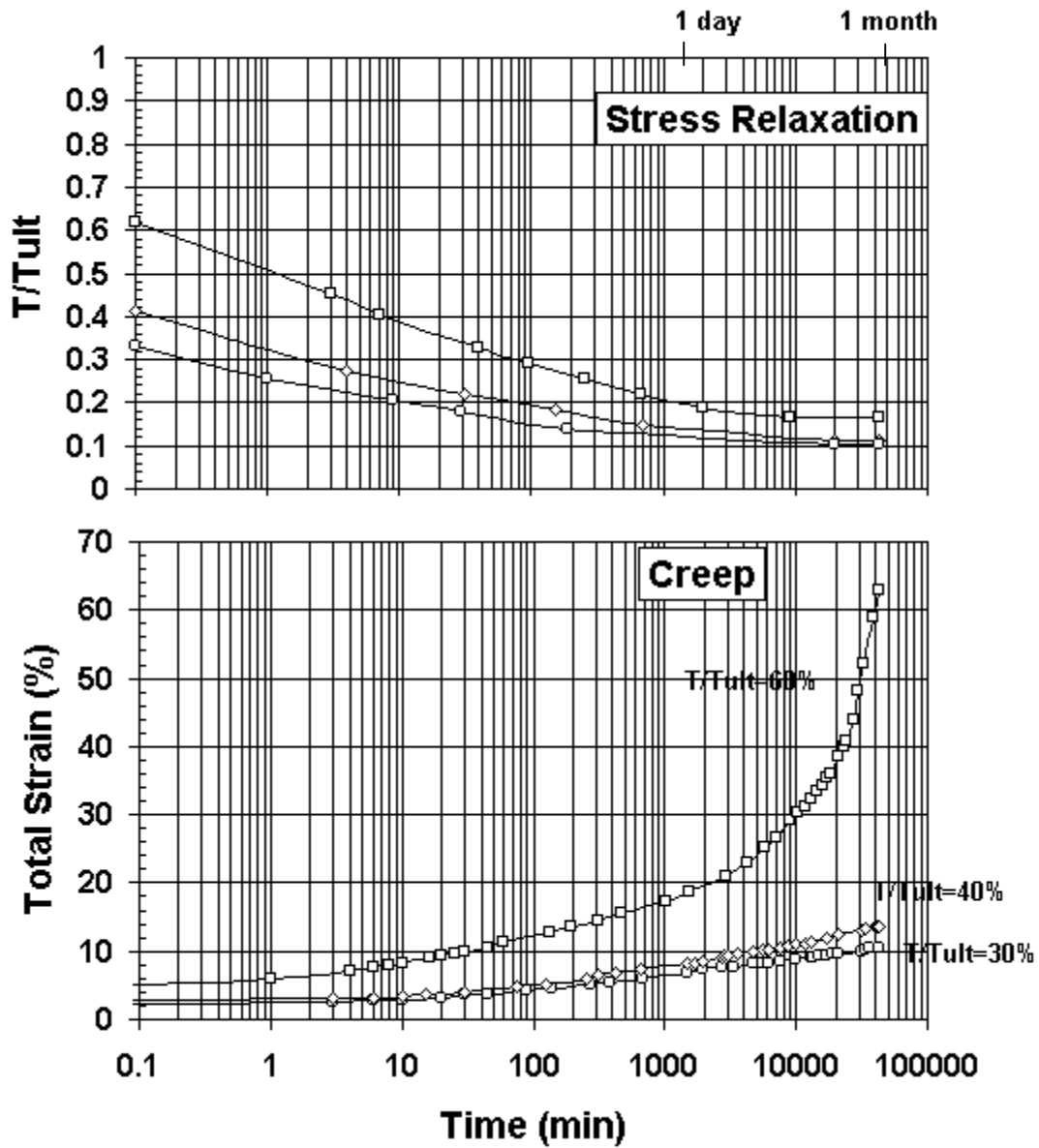


Figure 11. Stress relaxation and creep test results for Geogrid D1.

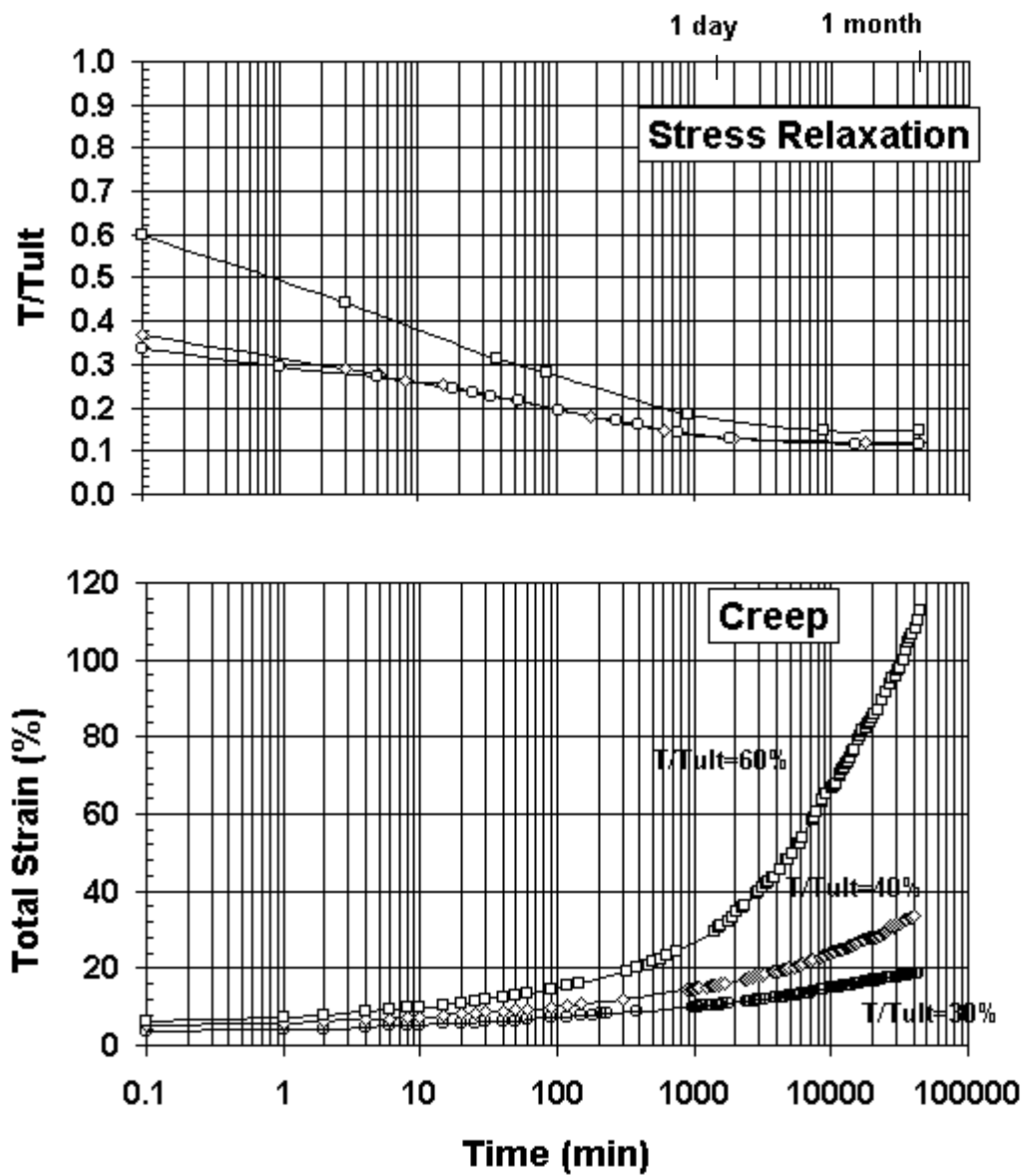


Figure 12. Stress relaxation and creep test results for Geogrid D2.

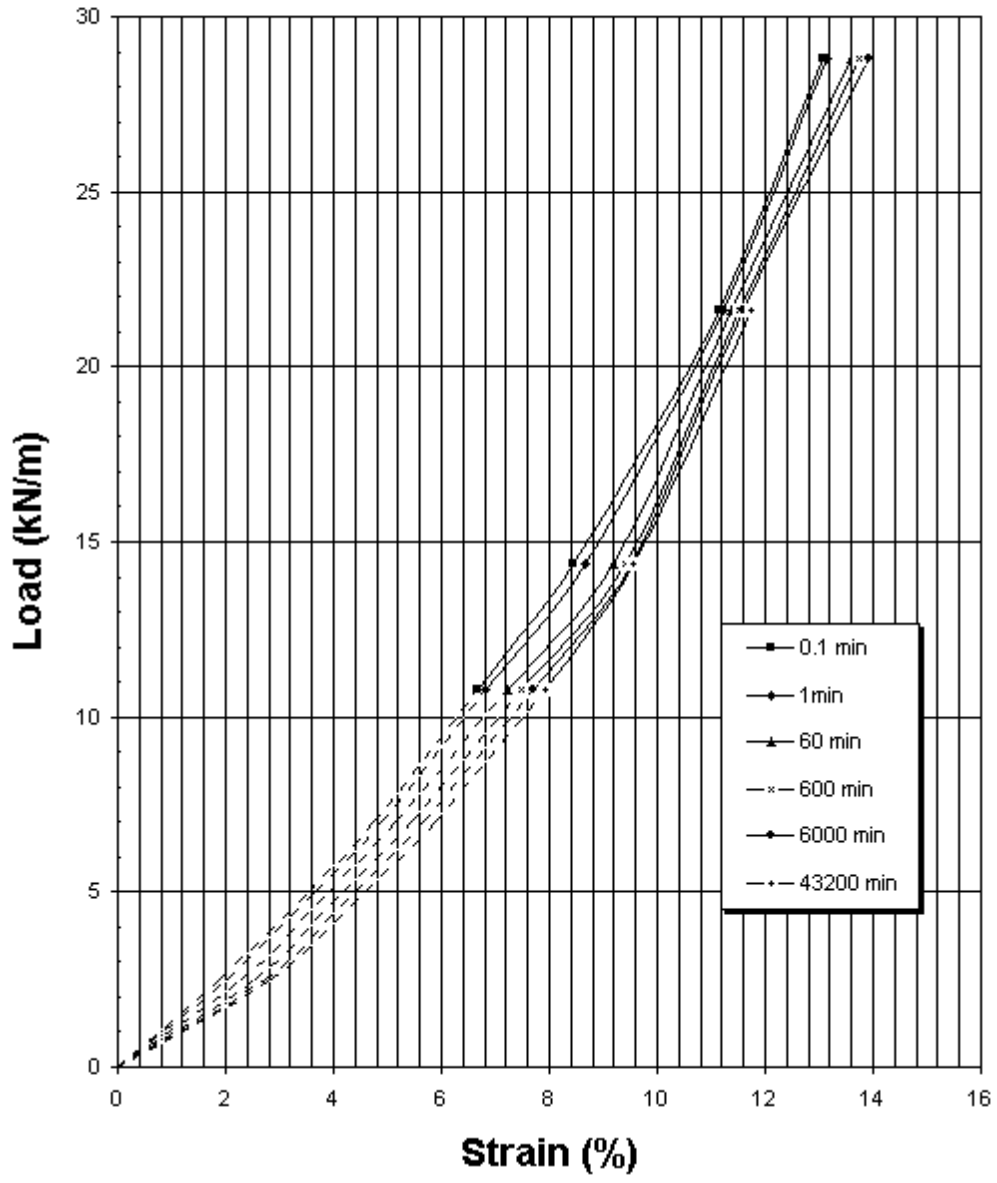


Figure 13. Isochronous curve for creep of Geogrid B1.

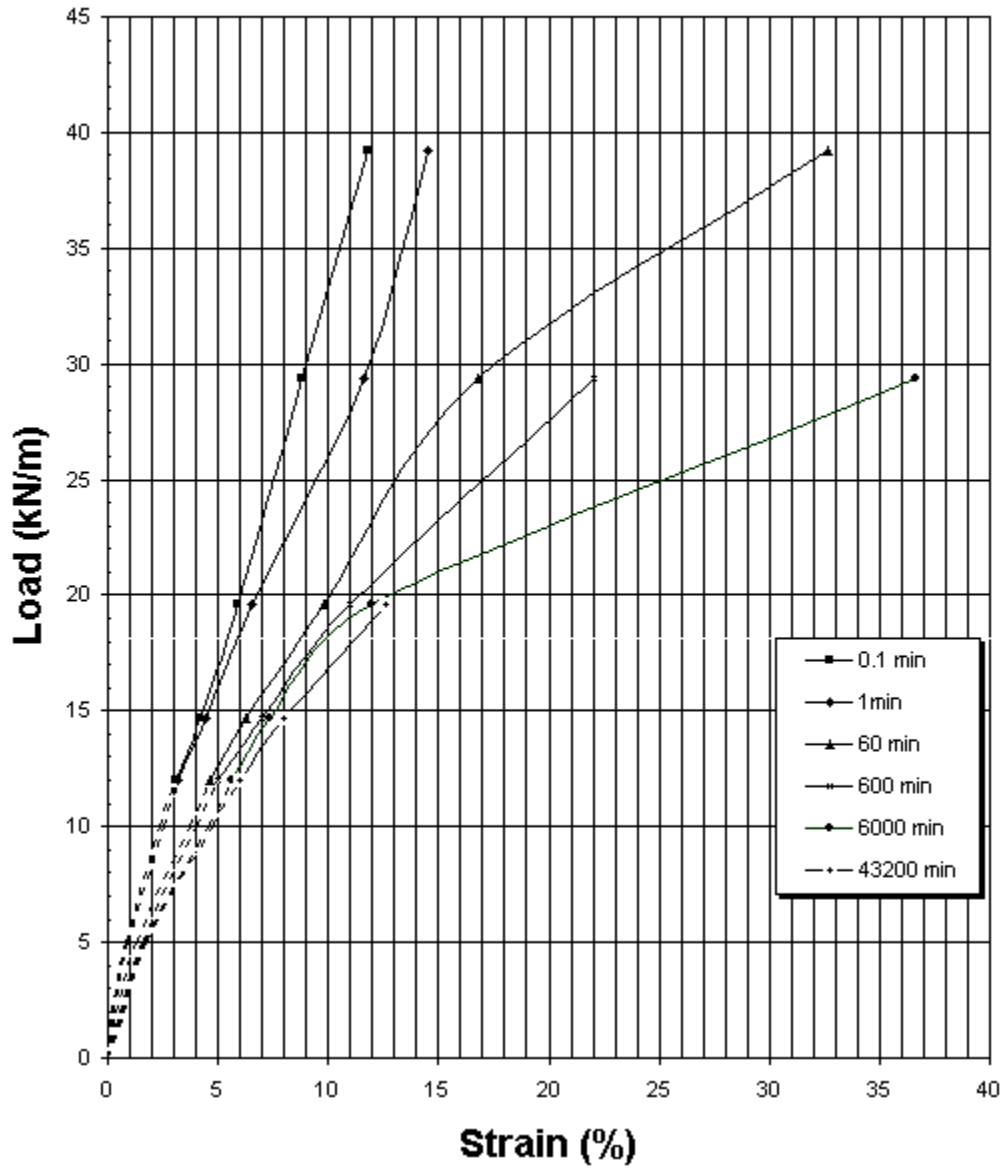


Figure 14. Isochronous curve for creep of Geogrid C2.

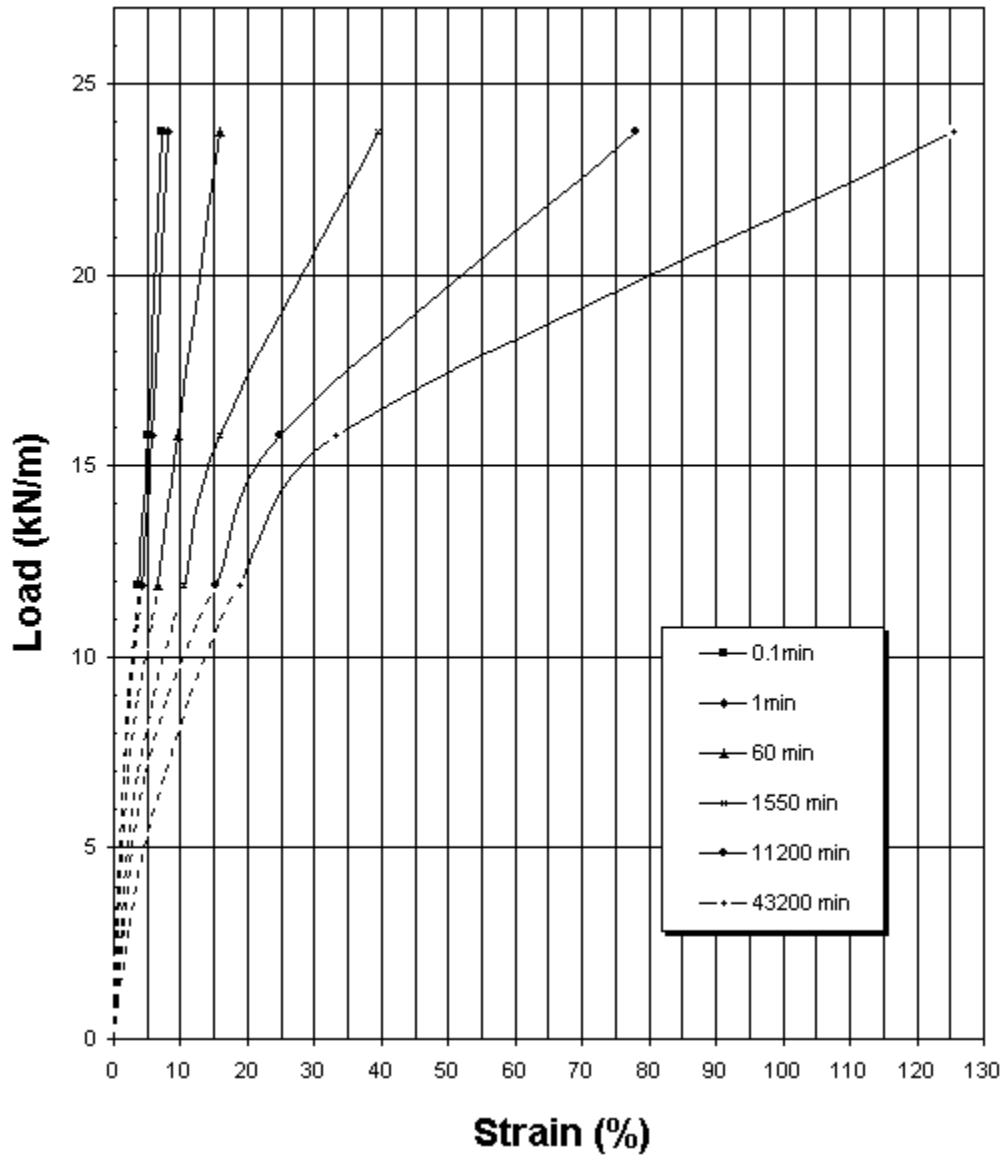


Figure 15. Isochronous curve for Geogrid D2.

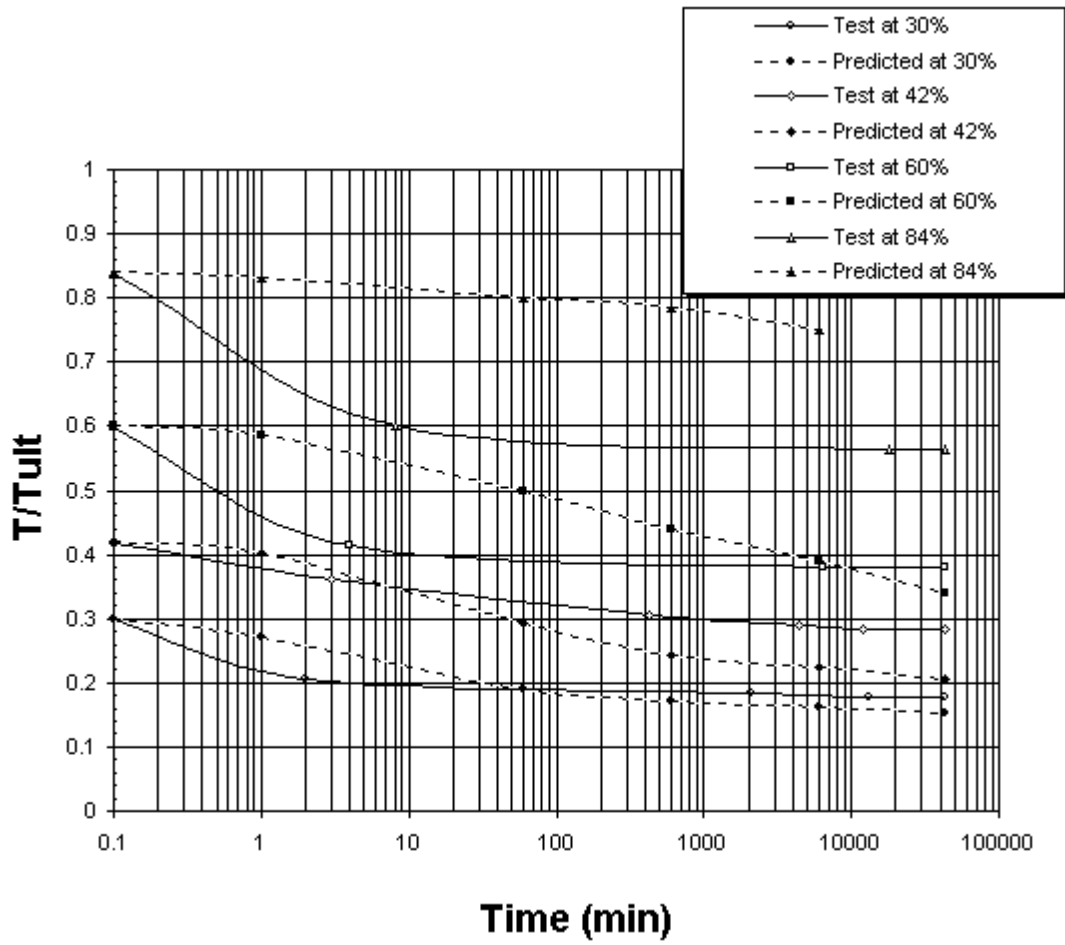


Figure 16. Predicted vs. measured relaxation of Geogrid A1.

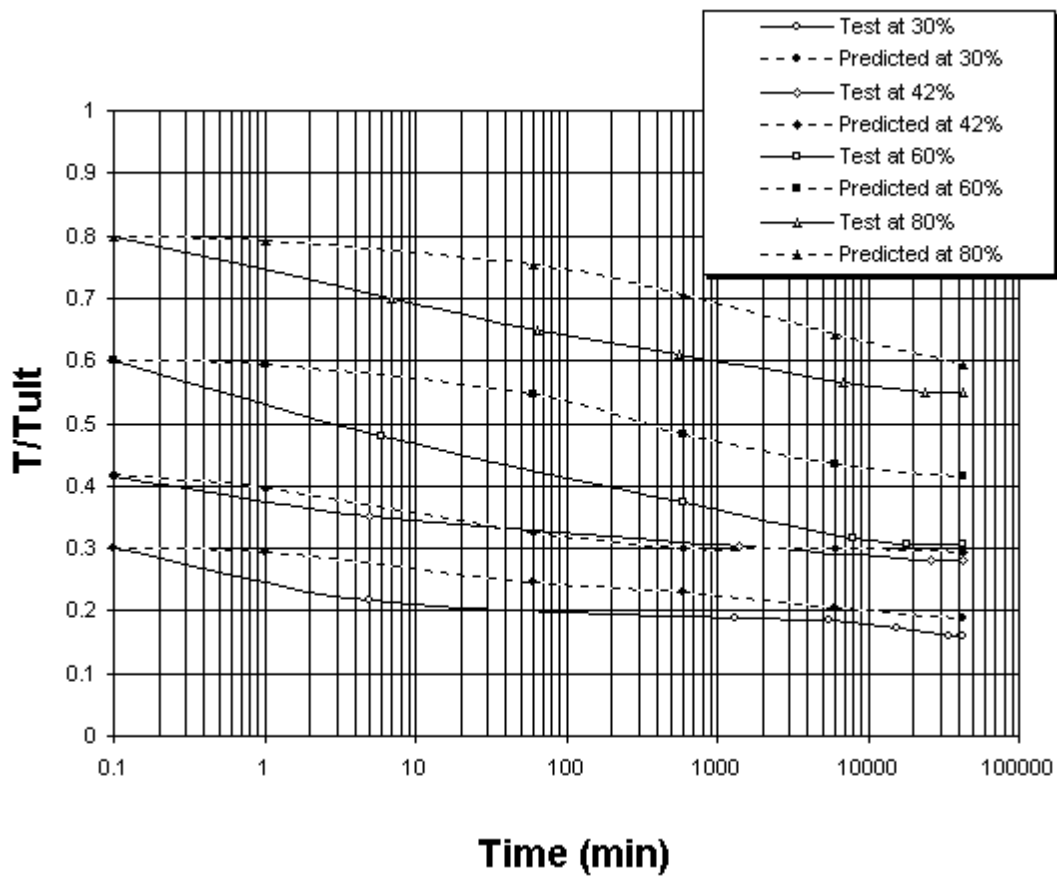


Figure 17. Predicted vs. measured relaxation of Geogrid A2.

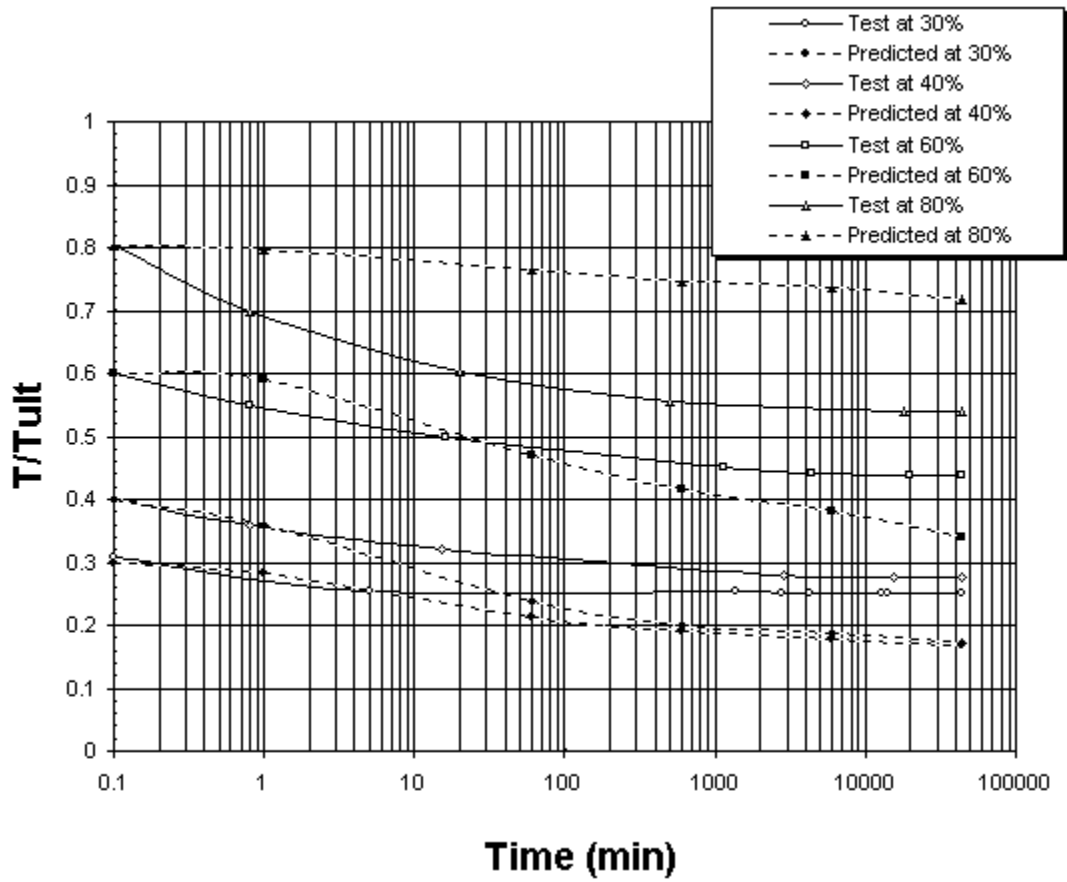


Figure 18. Predicted vs. measured relaxation of Geogrid A3.

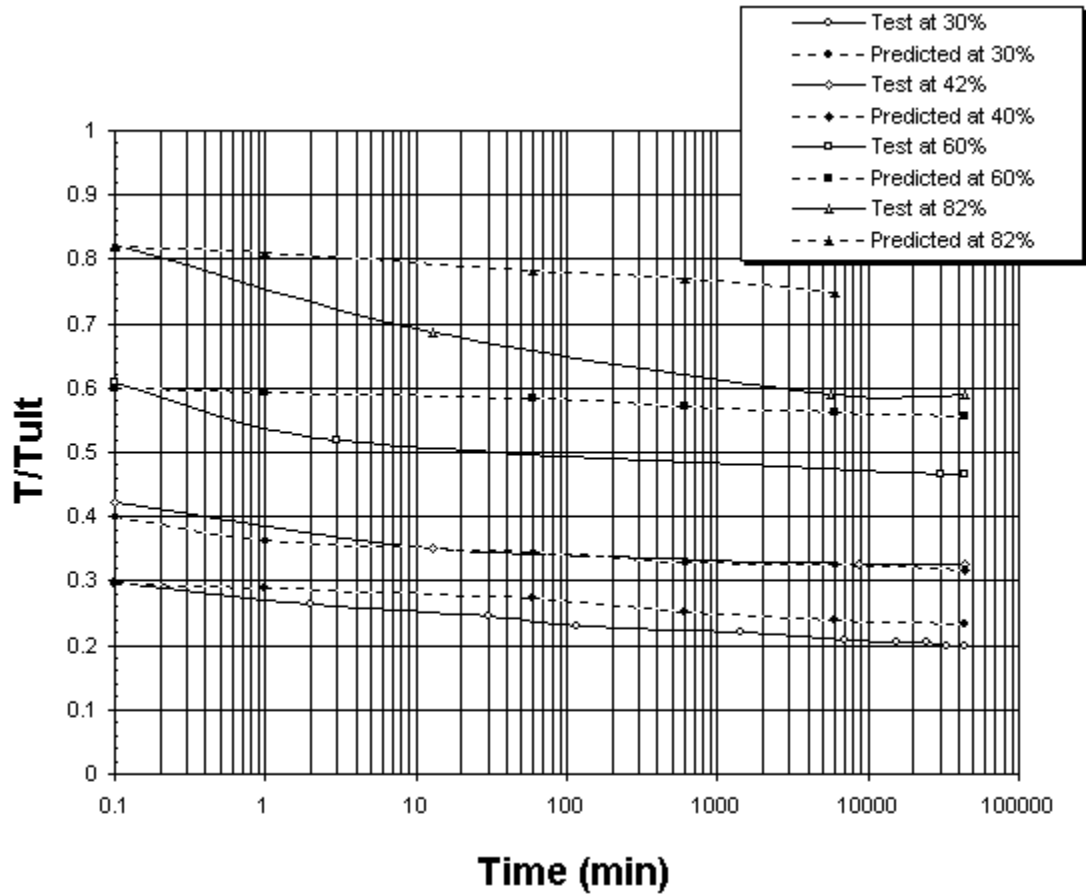


Figure 19. Predicted vs. measured relaxation of Geogrid B1.

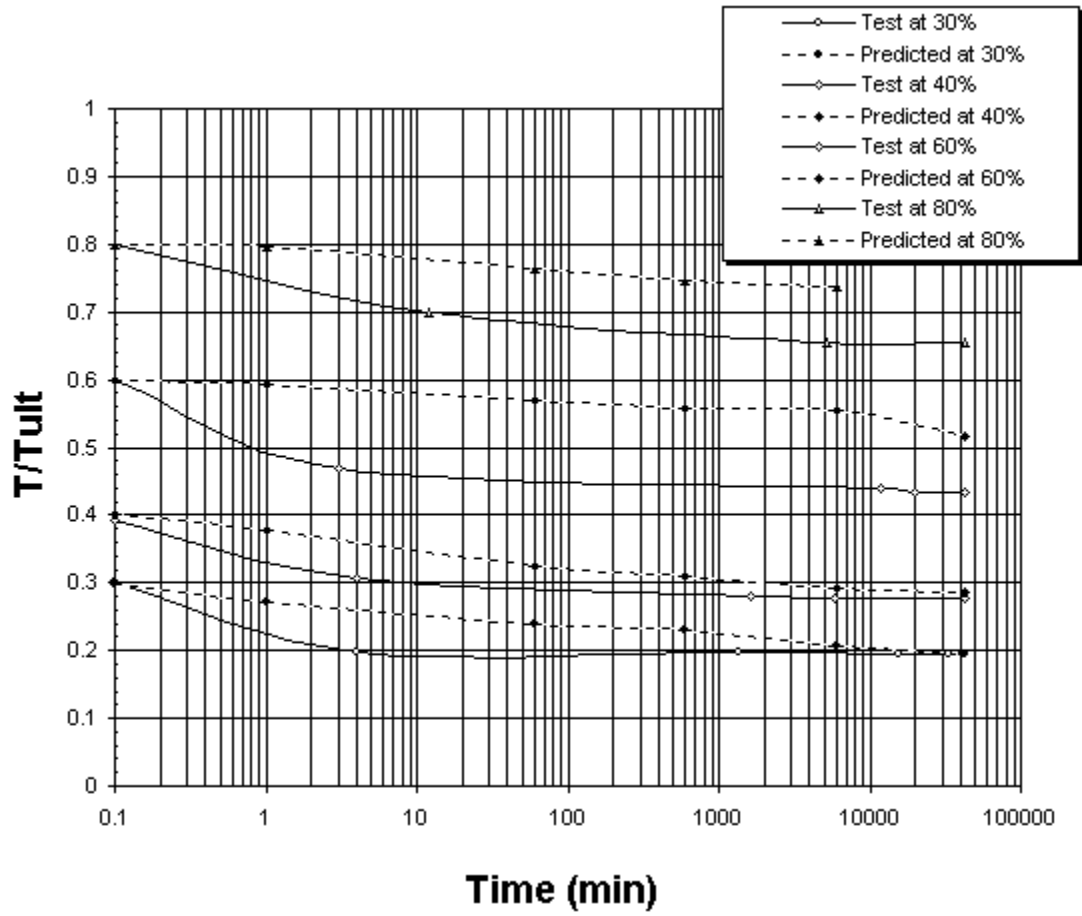


Figure 20. Predicted vs. measured relaxation of Geogrid B2.

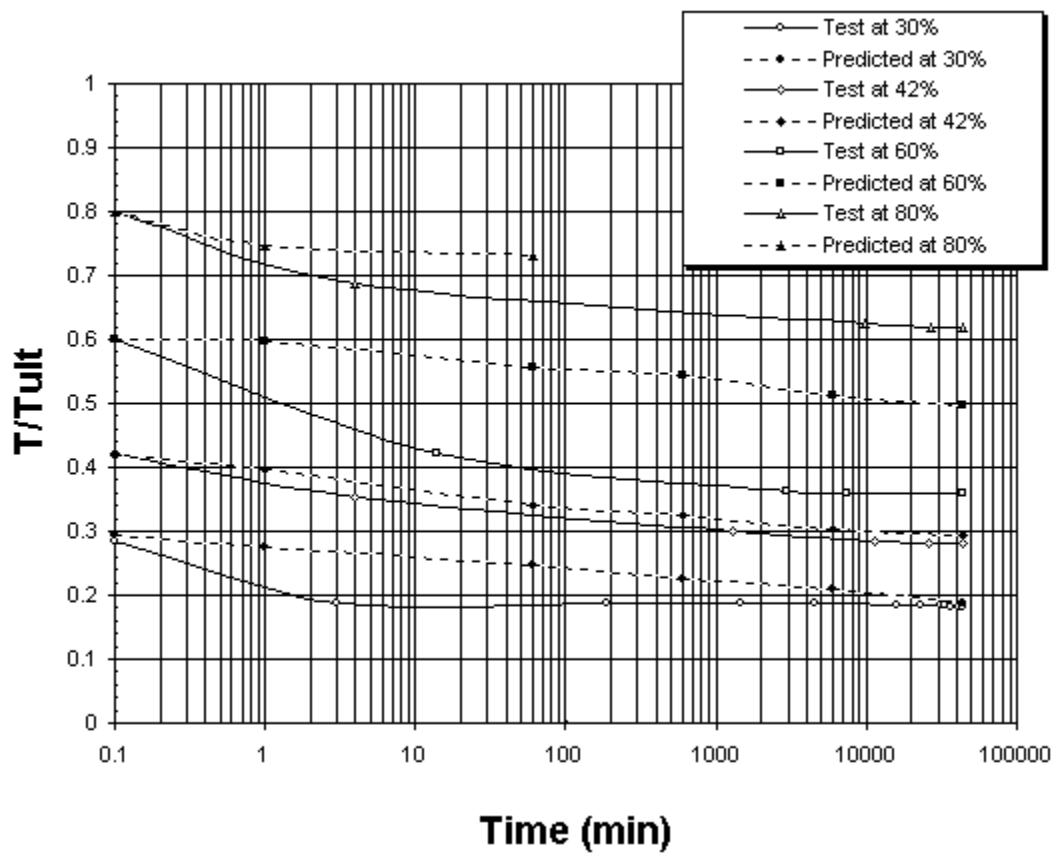


Figure 21. Predicted vs. measured relaxation of Geogrid B3.

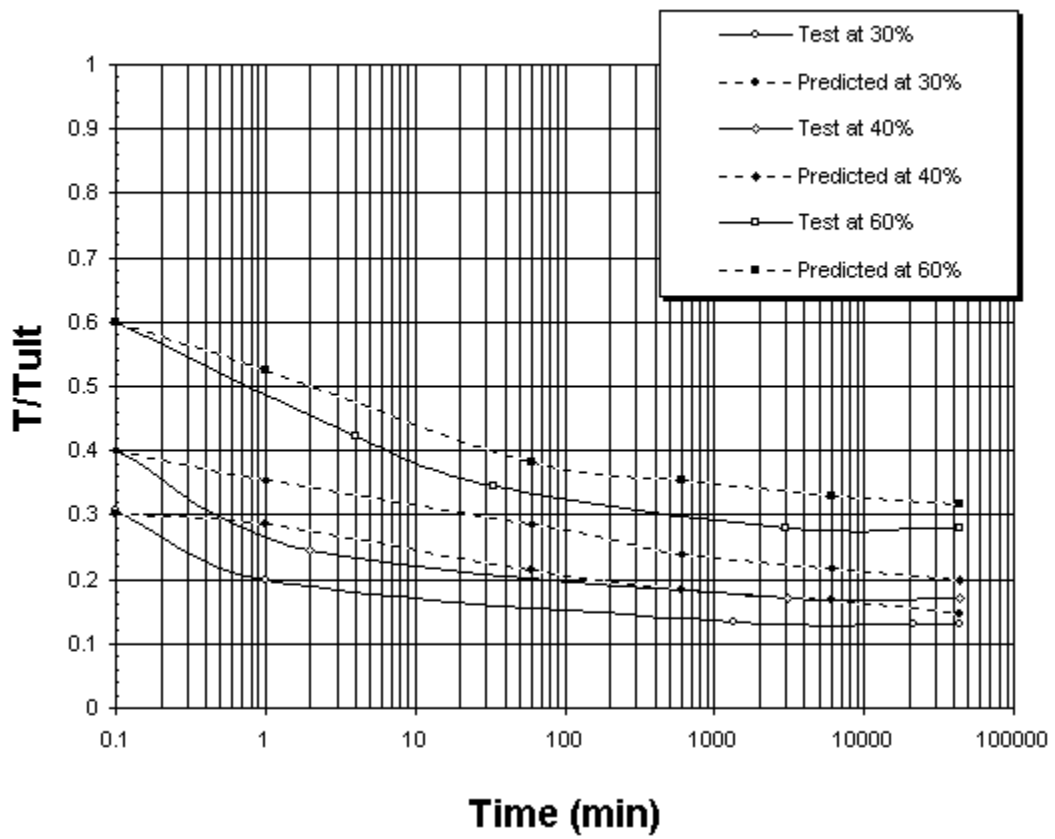


Figure 22. Predicted vs. measured relaxation of Geogrid C1.

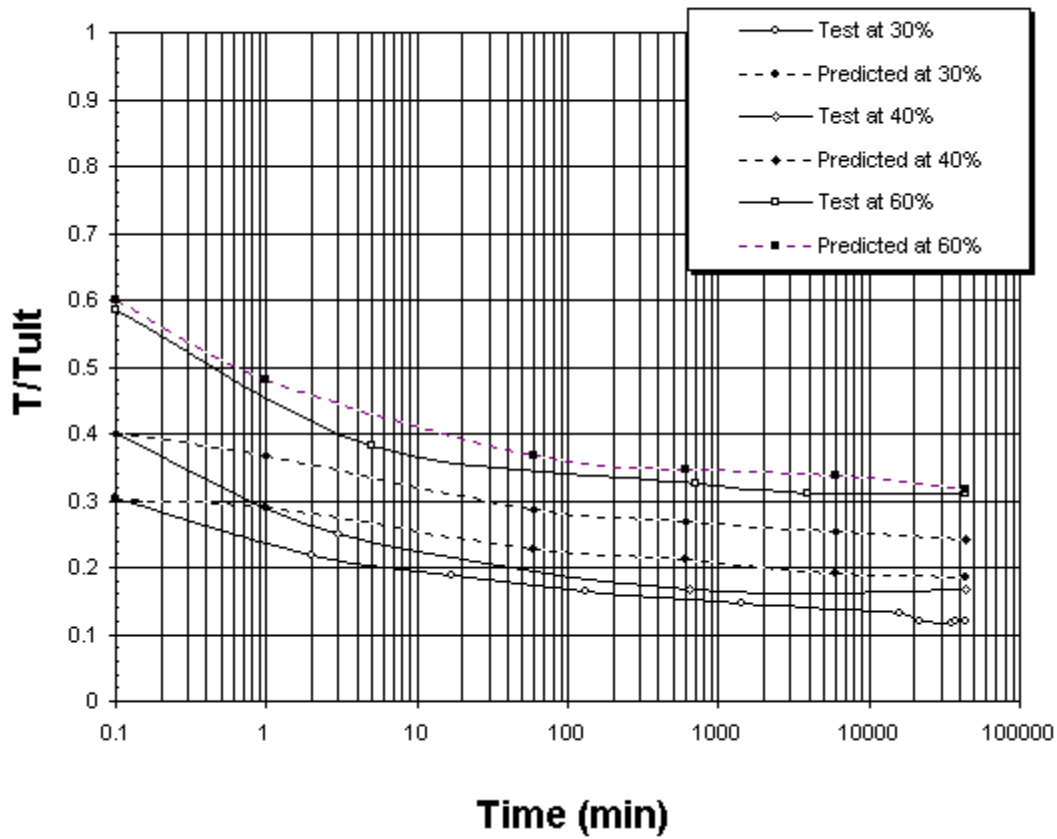


Figure 23. Predicted vs. measured relaxation of Geogrid C2.

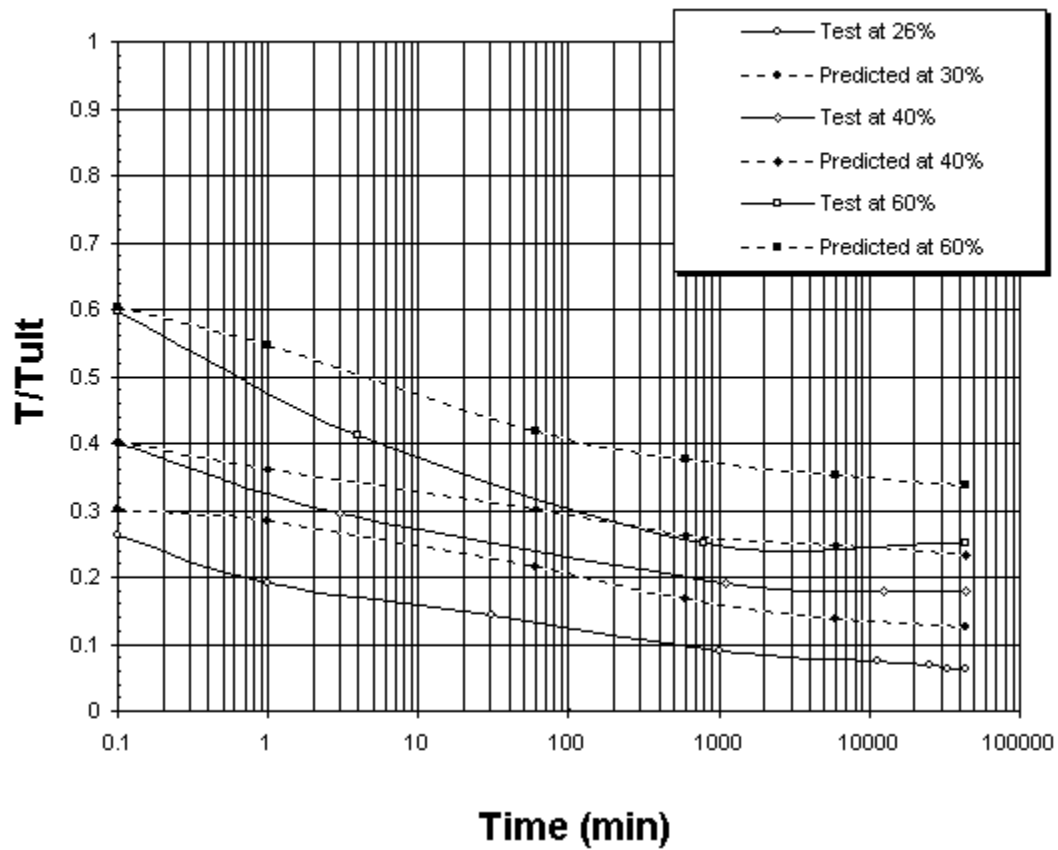


Figure 24. Predicted vs. measured relaxation of Geogrid C3.

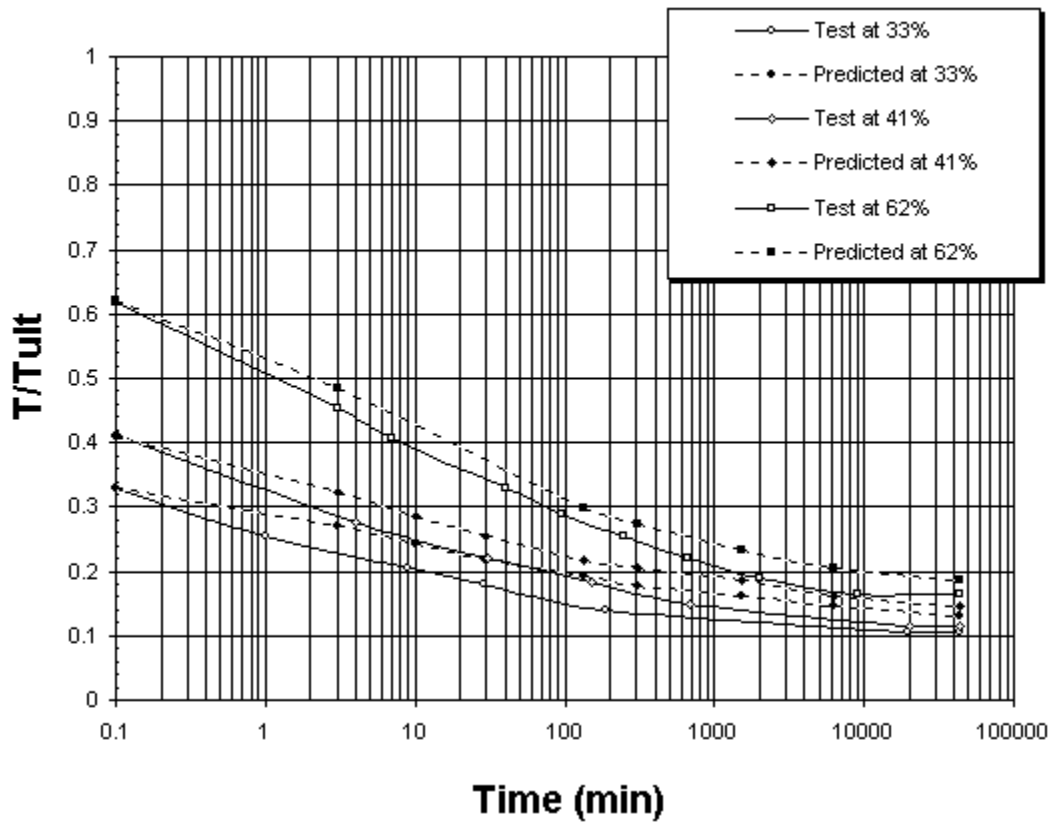


Figure 25. Predicted vs. measured relaxation of Geogrid D1.

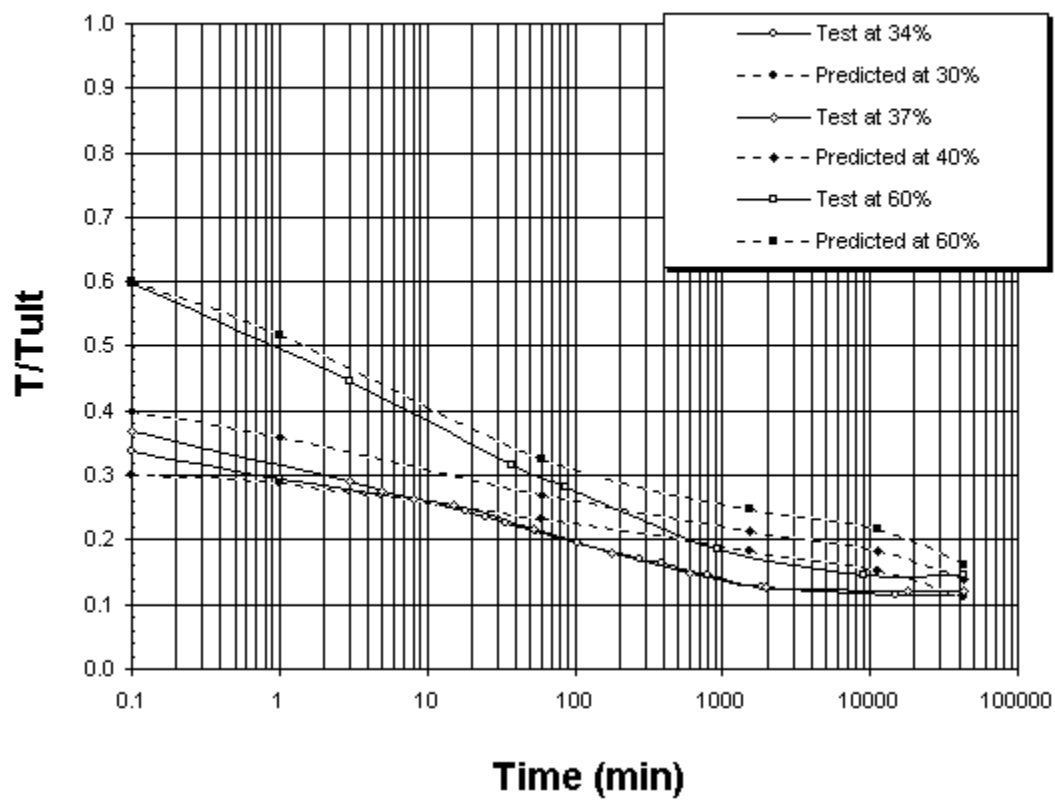


Figure 26. Predicted vs. measured relaxation of Geogrid D2.

