

REFERENCES

REFERENCES

1. *A. Tager*,
"Physical Chemistry of Polymers", Mir Publishers,
Moscow. [1972].
2. *C.M. Blow*,
Ed.: "Rubber Technology and Manufacture",
Newnes-Butter worth, London. [1981].
3. *G.P. Maurya*,
Ed.: "Technology of Rubber Products"
Small Business Publications, Delhy. [1972].
4. *A.V. Tongerloo and R. Vukou*,
"International Rubber Conference",
Vienna, [1979].
5. *M. Morton*,
Ed.: "Introduction to Rubber Technology",
Van Nostrand Reinhold Co., New York. [1973].

6. R.H. Norman,
"Conductive Rubbers and Plastics"
Appl. Sci. Publ. LTD, London. [1970].
7. E.K. Sichel, J.I. Gittleman, P. Sheng and N.J. Linden,
J. of Electronic Materials, vol.11, pp. 699 [1982].
8. S. Dasgupta,
J. Appl. Polym. Sci., Vol. 22, pp. 2383 [1978].
9. D.A. Seanor,
Ed.: "Electrical Properties of Polymers",
Academic Press, London. [1982].
10. A.R. Blythe,
"Electrical Properties of Polymers",
Cambridge University Press, London. [1977].
11. A.I. Voet, W.N. Whitten and F.R. Cook,
Kolloid Z., vol. 201, No. 93 [1965].
12. R.M. Scarisbrick,
J. Phys.(D), Vol. 6, pp.2098 [1973].

13. *A.I. Medalia,*

Rub. Chem. Tech., Vol. 56, No. 3, pp. 432 [1986].

14. *S. Radhakrishnan,*

J. Mate. Sci. Lett., Vol. 4, pp. 1445 [1985].

15. *J.-P. Reboul,*

J. Appl. Phys., Vol. 46, No. 7, pp. 2961 [1975].

16. *R.M. Scarisbrich,*

J. Phys. [D], Vol. 6, pp. 2098 [1975].

17. *E.M. Cashell, J.M.D. Coey, G.E. Wardell, V.J. McBrierty,
and D.C. Douglass,*

J. Appl. Phys., Vol. 52, No. 3, pp. 1542 [1981].

18. *S. Kirkpatrick,*

Rev. Mod. Phys., Vol. 45, pp. 574 [1973].

19. *D. Stauffer,*

"Introduction to Percolation Theory",

Taylor and Fransis, Philadelphia [1985] pp. 90.

20. *I. Balberg and S. Bozowski,*
Solid State Commun., Vol. 44, pp. 551 [1982].
21. *I. Balberg, N. Binenbaum and S. Bozowski,*
Solid State Commun., Vol. 47, pp. 989 [1983].
22. *A.L. Efros, and B.I. Shklovskii,*
Phys. Stat. Sol. [B], Vol. 76, pp. 475 [1976].
23. *Y.H. William, G.H. Wilfried and R.B. John,*
J. Mate. Sci. Lett., Vol. 7, pp. 459 [1988].
24. *H. Ziebland,*
"Polymer Engineering Composites"
Ed.: M.O.W. Richardson,
Applied Science, London [1977], pp. 321.
25. *A. Voet,*
Rub. Chem. Tech., vol. 54, No.1, pp. 42 [1981].
26. *M. Narkis, A. Ram, and Z. Stein,*
Polym. Engin. and Sci., Vol. 21, No. 16 [1981].

27. W.F. Verhelst, K.G. Wolthuis, A. Voet, P. Ehreburger
and J.B. Donnet,
Rubb. Chem. Tech., Vol. 50, pp.735 [1977].
28. J. Frenkel,
Phys. Rev., Vol. 36, pp. 1604 [1936].
29. S. Radhakrishnan,
Polym. Commun., Vol. 26, pp. 153 [1985].
30. E.K. Sichel, J.I. Gettleman and P. Sheng,
in "Carbon Black-Polymer Composites"
Ed.: E.K. Sichel, Marcel Dekker, New York [1982].
31. P. Sheng, E.K. Sichel and J.I. Gittleman,
Phys. Rev. Lett., Vol. 40, pp. 1197 [1978].
32. C. Rajagopal and M. Satyman,
J. Appl. Phys., Vol. 49, No. 11, pp.5536 [1978].
33. R.M. Scarisbrick,
J. Phys.[D], Vol. 6, pp. 2098 [1973].

34. D.A.G. Bruggeman,
Ann. Phys., Vol. 24, pp. 636 [1935].
35. R.B. Grekila and T.Y. Tien,
J. Am. Ceram. Soc., Vol. 48, No. 22 [1965].
36. J. Janzen,
J. Appl. Phys., Vol. 46, pp. 966 [1975].
37. R.E. Meredith and C.W. Tobias,
"Advances in Electrochemistry and Electrochemical
Engineering".
Interscience, New York [1962], Vol. II, pp. 15.
38. K. Oheand and Y. Naito,
Jpn. J. Appl. Phys., Vol. 10, pp. 99 [1971].
39. R.E.C. Read and C.D. Stow,
Br. J. Appl. Phys.[D], Vol. 2, pp. 567 [1969].
40. B.E. Springett,
J. Appl. Phys., Vol. 44, pp. 2925 [1973].
-

48. *F. Bueche,*

J. Appl. Phys., Vol. 44, No. 1, pp. 532 [1973].

49. *S.N. Miyauchi and E. Togashi,*

J. Appl. Polym. Sci., Vol. 30, pp. 2743 [1985].

50. *Y. Agari and T. Uno,*

J. Appl. Polym. Sci., Vol. 30, pp. 2225 [1985].

51. *Y. Agari and T. Uno,*

J. Appl. Polym. Sci., Vol. 32, pp. 5705 [1986].

52. *D.M. Moffatt, J.P. Runt, A. Halliyal and R. Newnham,*

J. Mate. Sci., Vol. 24, pp. 609 [1989].

53. *B. Wunderlich and H. Baur,*

"Heat Capacity of Linear High Polymers"

Springer-Verlag, Berlin, Heidelberg, New York [1970].

54. *H. Bruce and B. Edward,*

J. Appl. Polym. Sci., Vol. 31, pp. 2377 [1986].

55. A. Bhattacharyya, T.L. Smith and A.C. Anderson,
J. non-Cryst. Sol., Vol. 31, pp. 395 [1979].
56. T. Kimura and S. Yasuda,
J. Appl. Phys., Vol. 59, No. 3, pp.960 [1986].
- 57 T. Kimura and S. Yasuda,
Polymer, Vol. 29, pp. 526 [1988].
58. H. Desanges, R. Chasset and P. Thirion,
Rubb. Chem. Tech., Vol. 31, pp. 631 [1958].
59. C.J. Stacey, P.H. Johnson and G. Kraus,
Rubb. Chem. Tech., Vol. 48, pp. 538 [1975].
60. E.M. Abdel-Bary, M. Amin and H.H. Hassan,
J. Polym. Sci., Vol. 12, pp. 2651 [1974].
61. E.M. Abdel-Bary, M. Amin and H.H. Hassan,
J. Polym. Sci., Polym. Chem. Ed., Vol. 17, pp. 2163 [1979].
62. E.M. Abdel-Bary, M. Amin and H.H. Hassan,
J. Polym. Sci., Polym. Chem. Ed., Vol. 15, pp. 179 [1977].

63. *H.H. Hassan,*
Ph.D. Thesis, Cairo University, Egypt [1978].
64. *B.B. Boonstra,*
Rub. Chem. Tech., Vol. 50, pp. 194 [1977].
65. *A.K. Sircar,*
Rub. Chem. Tech., Vol. 54, pp. 194 [1981].
66. *H.H. Hassan, A.A. Ghani, A.E. Eatah and A.A. Hashem,*
Die Angewandte Makromolekulare Chemie.,
Vol. 115, pp. 39 [1983].
67. *M. Amin, H.H. Hassan and G.M. Nasr,*
J. Polym. Sci., Polym. Chem. Ed., Vol. 21, pp. 3353 [1983].
68. *M.E. Gouda,*
M.Sc. Thesis, Faculty of Science, Benha, Egypt [1989].
69. *C. Muralidhar and P.K.C. Pillai,*
J. Mate. Sci., Vol. 23, pp. 410 [1988].

70. K. Lalkishore, K. Ramkumar and M. Satyam,
J. Appl. Phys., Vol. 61, No. 1, pp. 397 [1987].
71. C. Muralidhar and P.K.C. Pillai,
J. Mate. Sci. Lett., Vol. 6, pp. 1243 [1987].
72. F.A. Doljack,
IEEE. Trans. Hyb. Manuf. Tech., Vol., 4, pp. 372 [1981].
73. Hercules Research Centre Contribution No. 1700,
J. Appl. Sci., Vol. 22, pp. 2383 [1978].
74. R.J. Crawford,
"Plastics and Rubber Engineering and Applications"
Mechanical Engineering Publications LTD, London [1985].
75. B.B. Boonstra,
Polymer, Vol. 20, pp. 691 [1979].
76. P.P. Budnikov and A.M. Ginstling,
"Principles of Solid State Chemistry"
Translated and Ed. by Kshaw, Gordon and Breach
Science Publishers, Inc., N.Y., pp. 343 [1964].

77. A.R. West,
Ed.: "Solid State Chemistry and its Applications"
J. Wiley Sons LTD., pp. 540 [1987].
78. I.N. Belyaev,
J. Appl. Chem. [Russ], Vol. 26, pp. 648 [1953].
79. H. Mark and N. Galord,
"Encyclopedia of Polymer Science and Technology"
Interscience, New York, Vol. 12 [1969].
80. S.A. Gwaily,
Ph. D. Thesis, Al-Azhar University, Egypt [1987].
81. V.E. Gul,
"Electrically Conducting Polymeric Materials."
Khimya Publ. Co., Moscow, [1968]. In Russian.
82. M.K. El-Manssy and H.H. Hassan,
Gumi Abs. Kunststoffe, Vol. 12, No. 40, pp.648 [1987].
83. H.H.Hassan, E.M. Abdel-Bary, M.K. El-Manssy and N.M. Shash,
J. Appl. Phys. Commun., Vol.9, No.4, pp. 267 [1990].

84. G. Geuskens, J.I. Gielens, T. Geshef and R. Deltour,
European Polymer Journal, Vol.23, No.12, pp.993 [1987].
85. J. Simmons,
J. Appl. Phys., Vol. 34, pp. 238 and pp. 1793 [1963].
86. L.A. Wood,
Rub. Chem. Technol., Vol. 49, pp. 189 [1976].
87. F. Snell and L. Ettre,
"Encyclopedia of Industrial Chemical Analysis",
Interscience Publishers, N.Y. [1969].
88. C. J. Geankoplis,
"Transport Processes and Unit Operations"
Allyn and Bacon, Inc., London, [1978], pp. 392.
89. L.A. Wood and N. Bekkedahl,
Polymer Letters, Vol.5, pp 169 [1967].
90. V.S. Arpaci and P.S. Larsen,
"Convection Heat Transfer", Prentice-Hall, Inc.,
Englewood Cliffs, New Jersey [1984].

91. W.J. Parker, R.J. Jenkins , C.P. Butler and G.L. Albott,
J. Appl. Phys., vol. 32, pp. 1679 [1963].
92. D. Hands and F. Horsfall,
Rubb. Chem. Tech., vol. 50, pp. 253 [1977].