

Content

Introduction	5
Safety in the laboratory	6
Recording of results and structure of protocols	6
1 Determination of the fracture behaviour of polymers using tensile testing machine .	7
1.1 Comparison of the stress-strain curves for plastic and rubber under uniaxial tensile stress.....	10
1.2 Determination of the effect of crack geometry on the energy required to break a rubber specimen	14
1.3 Characterization of the crack propagation process depending on their position...18	
2 Characterization of pure shear region depending on the test specimen geometry21	
3 Determination of intrinsic strength	24
4 Determination of resistance to cyclic abrasion	33