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Chain Orientation"; ""3.3. TRANSPORT PHENOMENA IN MICROANDNANO-COMPOSITES"; ""3.4. CONTINUUM MODELING OF TRANSPORTPROPERTIES OF POLYMER COMPOSITES"; ""3.5. PERMEABILITY OF POLYURETHANES (PU) ANDPOLYURETHANEUREAS (PUU): STRUCTURE-PROPERTYRELATIONSHIPS"; ""3.5.1. Transport Mechanisms"; ""3.5.2. Effect of Soft Segment Type, Its Composition, and Molecular Weight""
""3.5.3. Effect of Hard Segment Content and the Extent of Phase Separation""""3.5.4. Effect of Penetrant Type"; ""3.6. PERMEABILITY OF FILLED POLYURETHANES ANDPOLYURETHANEUREAS: MICRO- AND NANOCOMPOSITES"; ""3.7. IMPORTANCE OF TRANSPORT PHENOMENONIN SHAPE MEMORY POLYMERS"; ""3.7.1. Importance of Mass Transfer in SMP:Actuation by Water Absorption in Surgical Procedures"; ""3.7.2. Importance of Mass Transfer through SMP:Textile Fabrics and Refrigerators"; ""3.8. CONCLUSIONS"; ""3.9. ACKNOWLEDGEMENTS"; ""REFERENCES"; ""PERMEATION PROPERTIESOF EPOXY NANOCOMPOSITES"; ""ABSTRACT""
""4.1. INTRODUCTION""""4.2. MODELING OF THE PERMEABILITY OF NANOCOMPOSITES"; ""4.3. PERMEABILITY OF EPOXY NANOCOMPOSITES"; ""4.3.1. Effect of Nanoplatelet Loading"; ""4.3.2. Effect of Nanoplatelet Dispersion"; ""4.3.3. Effect of Nanoplatelet Aspect Ratio"; ""4.3.4. Effect of Nanoplatelet Orientation"; ""4.3.5. Control of Nanocomposite Morphology"; ""4.4. CONCLUSIONS"; ""4.5. ACKNOWLEDGMENTS"; ""REFERENCES"; ""BARRIER PROPERTIESOF POLYOLEFIN NANOCOMPOSITES"; ""ABSTRACT"; ""5.1. INTRODUCTION"; ""5.2. BARRIER PROPERTIES OF POLYOLEFINNANOCOMPOSITES: EFFECT OF COMPATIBILIZER""
""5.3. ROLE OF OPTIMUM CLAY MODIFICATION""

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