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Nota di contenuto	A Guide to Polymeric Geomembranes; Contents; Series Preface; Preface; About the Author; Acknowledgments; 1 Introduction to Polymeric Geomembranes; 1.1 Introduction; 1.2 Viscoelastic Behaviour; 1.3 Polymer Structure; 1.4 Molecular Weight; 1.5 Molecular Weight Distribution; 1.6 Crystallinity; 1.7 Properties of Polyethylenes; 1.8 Stress-Strain Behaviour of Polymers; 1.8.1 Yield Behaviour; 1.8.2 Plastic Deformation; 1.8.3 Stress; 1.8.4 Strain; 1.8.5 Types of Loading; 1.8.6 Temperature Effects; 1.8.7 Strain Rate Effects; 1.9 Melting Points; References; 2 Geomembrane Manufacturing Methods 2.1 Blown Film (Round Die)2.2 Flat Sheet Extrusion (Flat Die); 2.3 Coextrusion; 2.4 Calendering; 2.5 Spread Coating; 2.6 Extrusion Coated Geomembranes; 2.7 Pin-Hole Detection; 2.8 Texturing; 2.8.1 Coextrusion Texturing; 2.8.2 Impingement Texturing (also known as Spray-on Texturing); 2.8.3 Structuring; 2.8.4 Defects Created by Texturing; 2.8.5 Measuring the Thickness of Textured Geomembranes; 2.8.6 Anchor Sheet; 2.9 Additives for Geomembranes; 2.9.1 Pigments; 2.9.2 Carbon Black; 2.9.3 Stabilizer Package; 2.9.4 Blooming of Additives; 2.9.5 Interaction of Additives; References

3 HDPE Geomembranes 3.1 Introduction; 3.2 Structure-Property Relationships; 3.2.1 Chemical Resistance of HDPE Geomembranes; 3.3 Comparison of HDPE Geomembranes with Other Geomembranes; 3.4 Durability and Survivability of HDPE; 3.5 Selection of Quality HDPE Geomembranes; 3.5.1 HDPE Resin Selection; 3.5.2 Additive Formulation Selection; 3.5.3 The Geomembrane Manufacturing Method; 3.5.4 Standard Criteria for HDPE Geomembrane Liners; 3.5.5 Acceptable HP-OIT Results; 3.5.6 Acceptable SCR Performance; 3.5.7 Factory Sampling and Testing; 3.6 Common Failure Modes of HDPE Geomembranes 3.7 Multilayer HDPE Geomembranes 3.7.1 White-Surfaced HDPE Geomembranes; 3.7.2 Conductive HDPE Geomembranes; 3.7.3 HDPE with Internal Aluminium Barrier Layer (HDPE-AI); 3.8 Fluorinated HDPE (F-HDPE); 3.8.1 Degree of Fluorination; 3.8.2 Fluorination Process Details; 3.8.3 Superficial Layer; 3.8.4 Assessing the Level of Substitution; 3.8.5 Adhesive Bonding; 3.8.6 Applications; References; 4 Linear Low-Density Polyethylene Geomembranes; 4.1 Introduction; 4.2 Attributes of LLDPE Geomembranes; 4.3 Limitations of LLDPE Geomembranes; 4.4 Mechanical Properties; 4.5 LLDPE Geomembrane Resins 4.6 Speciality Flexible Polyethylene Geomembranes 4.6.1 Proprietary Flexible Polyethylene Geomembranes; 4.6.2 Tri-Directional Reinforced Polyethylene (RPE); 4.6.3 Reinforced Polyethylene (RPE); 4.6.4 Reinforced Metallocene Polyethylenes; 4.6.5 Polytarp Liners; 4.7 Very Low-Density Polyethylene (VLDPE) Geomembranes; References; 5 Flexible Polypropylene (fPP) Geomembranes; 5.1 Introduction; 5.2 Attributes of fPP Geomembranes; 5.3 Shortcomings of fPP Geomembranes; 5.4 Performance Properties of fPP Geomembranes; 5.4.1 Stress Crack Resistance; 5.4.2 UV Stability 5.4.3 Chemical Resistance of fPP Geomembranes

Sommario/riassunto

Geomembranes are flexible polymeric sheets which are used as relatively impermeable liners to contain liquid and vapour. With uses ranging from canal liners to hazard waste landfills, they are used extensively in a range of industries such as water conservation, mining, construction and waste management. A Guide to Polymeric Geomembranes: A Practical Approach offers an informed overview of the developments in this field and includes: Detailed discussion of the major geomembrane types Manufacturing methods Key performance properties Industrial applications Testing and
