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Polyethylene Furanoate: A promising biobased polyester for barrier applications

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Poly(ethylene furanoate) – PEF has gained extensive attention in recent years due to its high barrier properties to oxygen and carbod dioxide. PEF is a biobased polyester polymerized through combination of 2,5-furandicarboxylic acid – FDCA and ethylene glycol. Many authors consider PEF a potential replacement to PET and the next generation of FDCA biobased polyesters. e successful introduction of PEF in the beverage and food packaging industry requires bringing concrete proof of its applicability and versatility as a barrier layer, combining the fundamental understanding -6 (ura)c-6 (a)907.32 enundamh b (p)11 (p)7 (lic ,s.)47 (lp)7 (l56)