

			PEP	CEMEF	CARMA	PROPLAST	POLITECNICO	
Physical-chemical Teest	Permeability	Oxygen			X	X		
		Water vapour			X	X		
		CO ₂			X			
	Rheology	Melt Index	X	X		X		
		Viscosity	X	X		X		
	Others	Density	X			X		
		Surface Tension	X	X	X			
		Moisture absorption	X		X	X		
		Water absorption	X		X	X		
		% crystallinity		X				
		UV Ageing	X		X	X		
		Transparency		X	X			
		Burning behaviour	X			X		
		IRTF spectrum	X	X	X	X		
Ash content		X			X			
Mechanical Tests	Tensile	Young modulus E (-20 °C)	X	X	X	X	X	
		Tensile strenght at break (-20 °C)	X	X	X	X	X	
		Elongation at break ϵ_r (-20 °C)	X	X	X	X	X	
		Young modulus E (23 °C)	X	X	X	X	X	
		Tensile strenght at break (23 °C)	X	X	X	X	X	
		Elongation at break ϵ_r (23 °C)	X	X	X	X	X	
	Flexural	Flexural modulus (-20 °C)	X	X	X	X		
		Flexural strenght (-20 °C)	X	X	X	X		
		Deformation (-20 °C)	X	X	X	X		
		Flexural modulus (23 °C)	X	X	X	X		
		Flexural strenght (23 °C)	X	X	X	X		
		Deformation (23 °C)	X	X	X	X		
	Impact	Cold impact (-20 °C)	X			X		
		Impact (23 °C)	X	X		X		
		Notched impact strength (-20 °C)	X			X		
		Notched impact strength (23 °C)	X	X		X		
	Others	Hardness	X	X	X			
		Creep		X				
		Abrasion (wear with friction)		X	X	X		
	Thermal Tests		Melt Temperature	X	X	X	X	X
			Glass Transition Temperature	X	X	X	X	X
			Degradation Temperature	X		X		
Vicat softening temperature			X			X	X	
Deflection temperature under load			X			X		
Brittle fracture (23 °C)			X					
Calorific Power				X	X		X	
Thermal conductivity				X	X	X		
Thermal expansion					X			
Shrinkage			X			X		
Electrical Tests		Conductivity			X			
		Dielectric constant			X	X		
Biodegradability tests				X				
Compostability tests				X				
Processing	Specimens injection molding	X	X		X			