

PLGA poly(DL-lactide-co-glycolide)

PARAMETER	UNIT	VALUE	REFERENCES
GENERAL			
Common name	-	poly(DL-lactide-co-glycolide)	
CAS name	-	26780-50-7	
SYNTHESIS			
Monomer ratio	-	lactide:glycolide=50:50 to 85:15	Pereira, M C; Hill, L E; Zambiasi, R C; Metens-Talcott, S; Talcott, S; Gomes, C L, LWT - Food Sci. Technol., 63, 100-7, 2015.
Method of synthesis	-	biosynthesis	
Mass average molecular weight, M_w	dalton, g/mol, amu	3,000-15,000	Pereira, M C; Hill, L E; Zambiasi, R C; Metens-Talcott, S; Talcott, S; Gomes, C L, LWT - Food Sci. Technol., 63, 100-7, 2015.
COMMERCIAL POLYMERS			
Some manufacturers	-	Mitsui	
PHYSICAL PROPERTIES			
Color	-	white to light tan	
Odor	-	odorless	
Glass transition temperature	°C	45-55	
CHEMICAL RESISTANCE			
Good solvent		CH ₂ Cl ₂ , CHCl ₃ , DMF, DMSO, THF	
PROCESSING			
Additives used in final products	-	wollastonite	
Applications	-	nanoencapsulation	
Outstanding properties	-	biosynthesis, biodegradation	
BLENDS			
Suitable polymers	-	chitosan	