PLA

Mechanical property	Standard	Unit	Value
Young modulus	ISO 527-2	MPa	3.6
Yield tensile strenght	ISO 527-2	MPa	53
Tensile strength at break	ISO 527-2	MPa	--
Elongation at yield	ISO 527-2	%	6
Elongation at break	ISO 527-2	%	--
Flexural modulus	ISO 178	MPa	3.8
Flexural yield strength	ISO 178	MPa	--
Flexural strength at break	ISO 178	MPa	--
Flexural elongation at yield	ISO 178	%	--
Flexural elongation at break	ISO 178	%	--
Impact resistance (Charpy), unnotched	ISO 179-1	KJ/m^2	--
Compression modulus	ISO 604	MPa	--
Compression strength at yield	ISO 604	MPa	--
Compression strain at yield	ISO 604	%	--

Thermal property	Standard	Unit	Value
Melting temperature	ISO 11357	°C	135
Glass transition temperature	ISO 11357	°C	55
HDT at 1,80 MPa (unannealed)	ASTM D 648	°C	--
Vicat temperature 50N	ASTM D1525	°C	55

Other	Standard	Unit	Value
Density (specific gravity)	ISO 1183-1	g/cm^3	1.24
Electrical dissipation factor			--
Flame resistance	UL94		No
Railroad application compatibility	EN 45545		No
Biocompatibility			No
Blue card			No
Water contact			No
Food contact	FDA 21; EU 10/2011		No