

# Ecodear® V911X51

Polylactic Acid  
Toray Resin Company

Message:

Ecodear® V911X51 is a Polylactic Acid (PLA) product. It is available in Asia Pacific, Europe, or North America.  
Characteristics include:  
Flame Rated  
Eco-Friendly/Green

General Information			
UL YellowCard	E41797-100133484		
Features	Renewable Resource Content		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.21	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR)	28	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	3700	MPa	ISO 178
Flexural Stress (23°C)	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
NOTE			
1.	Sink-float Method		

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