

Ecodear® V554X51

Polylactic Acid

Toray Resin Company

Message:

Ecodear® V554X51 is a Polylactic Acid (PLA) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Flame Retardant

Eco-Friendly/Green

Halogen Free

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Renewable Resource Content		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.27	g/cm ³	
Melt Mass-Flow Rate (MFR)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	60.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	20	%	ISO 527-2
Flexural Modulus (23°C)	3500	MPa	ISO 178
Flexural Stress (23°C)	97.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	78.0	°C	ISO 75-2/B
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.00 mm	V-1		
1.50 mm	V-0		
2.00 mm	5V		
NOTE			
1.	Sink-float Method		

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