

# TERRAMAC TE-1070

Polylactic Acid  
UNITIKA Plastics Division

Message:

TERRAMAC TE-1070 is a Polylactic Acid (PLA) material. It is available in Asia Pacific, Europe, or North America for injection molding.  
Important attributes of TERRAMAC TE-1070 are:  
Eco-Friendly/Green  
Impact Resistant  
Typical applications include:  
Business/Office Goods  
Consumer Goods  
Containers  
Electrical/Electronic Applications  
Trays/Racks

General Information			
Features	Biodegradable		
	High Impact Resistance		
	Renewable Resource Content		
Uses	Consumer Applications		
	Containers		
	Electrical/Electronic Applications		
	Stationary Supplies		
	Support Trays		
Appearance	Opaque		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.30 to 0.50	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	34.0	MPa	ISO 527-2
Tensile Strain (Break)	> 200	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.6	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	54.0	°C	ISO 75-2/B
Melting Temperature	170	°C	

Injection	Nominal Value	Unit
Rear Temperature	130 to 170	°C
Middle Temperature	180 to 220	°C
Front Temperature	180 to 220	°C
Nozzle Temperature	180 to 220	°C
Processing (Melt) Temp	< 240	°C
Mold Temperature	10.0 to 30.0	°C
Back Pressure	0.490 to 1.47	MPa

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#### Recommended distributors for this material

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