

RTP 2099 X 124790 C

Polylactic Acid
RTP Company

Message:
Impact Modified - Mineral - Standard Nucleator - 78% Renewable Resource Content

General Information			
Filler / Reinforcement	Mineral filler, 10% filler by weight		
Additive	Nucleating agent		
	Impact modifier		
Features	Nucleated		
	Impact modification		
	Updatable resources		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Moisture Content	0.020	%	
Primary Additive	10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	75.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.2	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	54.4	°C	
Drying Time	2.0 - 6.0	hr	
Dew Point	-40.0	°C	
Processing (Melt) Temp	171 - 193	°C	
Mold Temperature	82.2 - 104	°C	
Injection Pressure	55.2 - 103	MPa	
Injection instructions			

Desiccant Type Dryer Required.

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Recommended distributors for this material

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