

RTP 2099 X 121249 D

Polylactic Acid

RTP Company

Message:

Standard Nucleator - Glass Fiber - 58% Renewable Resource Content

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	Nucleating agent		
Features	Nucleated		
	Updatable resources		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Moisture Content	0.020	%	
Primary Additive	40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Yield)	1.0	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	270	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	160	°C	ASTM D648
1.8 MPa, not annealed	149	°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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