

RTP 2099 X 121249 A

Poly(lactic Acid)
RTP Company

Message:

Standard Nucleator - Glass Fiber - 88% Renewable Resource Content

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% 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	1.32	g/cm ³	ASTM D792
Moisture Content	0.020	%	
Primary Additive	10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	79.3	MPa	ASTM D638
Tensile Elongation (Yield)	1.5	%	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	320	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	143	°C	ASTM D648
1.8 MPa, not annealed	106	°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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

