

RTP 2105 Z

Polyether Imide

RTP Company

Message:

Glass Fiber - FDA Compliant Ingredients

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.18	%	ASTM D570
Moisture Content	0.040	%	
Primary Additive	30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	221	MPa	ASTM D790
Compressive Strength	145	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	207	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity ¹	0.26	W/m/K	ASTM E1530
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+12	ohms · cm	ASTM D257
Dielectric Strength ² (in Oil)	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.90		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	354 - 399	°C
Mold Temperature	135 - 177	°C
Injection Pressure	82.7 - 124	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		
1.	Through-plane	
2.	Method A (short time)	

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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

