

RTP 285 D SI 2

Polyamide 612

RTP Company

Message:

Carbon Fiber - Silicone Lubricated

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	Silicone lubricant (2%)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.30	%	ASTM D955
Moisture Content	0.20	%	
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19700	MPa	ASTM D638
Tensile Strength	207	MPa	ASTM D638
Tensile Elongation (Yield)	1.5 - 2.5	%	ASTM D638
Flexural Modulus	17600	MPa	ASTM D790
Flexural Strength	303	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	100	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 (1.8 MPa, Unannealed)	216	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+5	ohms	ASTM D257
Volume Resistivity	0.10 - 10	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Dew Point	-17.8	°C	
Processing (Melt) Temp	249 - 285	°C	
Mold Temperature	60.0 - 93.3	°C	
Injection Pressure	68.9 - 124	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

