

RTP 2281 HF TFE 15

Polyetheretherketone

RTP Company

Message:

Carbon Fiber - PTFE Lubricated - High Flow

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Additive	PTFE lubricant (15%)		
Features	High liquidity		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.30	%	ASTM D955
Moisture Content	0.10	%	
Primary Additive	10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ASTM D638
Tensile Strength	165	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	234	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)	450	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+4	ohms · cm	ASTM D257
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	3.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	349 - 399	°C	
Mold Temperature	163 - 218	°C	
Injection Pressure	82.7 - 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

