

RTP 4282 TFE 10

Thermoplastic Polyimide

RTP Company

Message:

Carbon Fiber Reinforced - PTFE Lubricated - Wear Resistant

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 15% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Good wear resistance		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.30	%	ASTM D955
Moisture Content	0.010	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	179	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	96	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	640	J/m	ASTM D4812
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	204	°C	
Drying Time	6.0	hr	
Dew Point	-40.0	°C	
Processing (Melt) Temp	399 - 416	°C	
Mold Temperature	177 - 232	°C	
Injection Pressure	138 - 193	MPa	
Injection instructions			
Desiccant Type Dryer Required.			

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Recommended distributors for this material

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