

RTP 4685 TFE 15 SI 2

Syndiotactic Polystyrene

RTP Company

Message:

Carbon Fiber - PTFE Lubricated - Silicone Lubricated

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
	Silicone Lubricant (2%)		
Features	Lubricated		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10	%	ASTM D955
Moisture Content	0.020	%	
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19300	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Yield)	0.70	%	ASTM D638
Flexural Modulus	17200	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	180	J/m	ASTM D4812
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	293 to 327	°C	
Mold Temperature	71.1 to 149	°C	
Injection Pressure	68.9 to 103	MPa	

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