

RTP 2299 X 80218

Polyetheretherketone

RTP Company

Message:

PTFE Lubricated

General Information			
Additive	PTFE lubricant		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.5 - 2.5	%	ASTM D955
Moisture Content	0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2070	MPa	ASTM D638
Tensile Strength	51.7	MPa	ASTM D638
Tensile Elongation (Yield)	6.0 - 10	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	82.7	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)	690	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	149	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow	4.0E-5	cm/cm/°C	ASTM E831
Lateral	7.7E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14 - 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹ (in Oil)	24	kV/mm	ASTM D149
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	135 - 177	°C
Injection Pressure	82.7 - 124	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		
1.	Method A (short time)	

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