

# RTP Compounds 1387 D

## Polyphenylene Sulfide

### RTP Company

General		
Filler / Reinforcement	• Carbon Fiber Reinforcement, 40% Filler by Weight	
RoHS Compliance	• Contact Manufacturer	
Processing Method	• Injection Molding	
Physical	Nominal Value Unit	Test Method
Specific Gravity	1.48 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	34500 MPa	ASTM D638
Tensile Strength	234 MPa	ASTM D638
Tensile Elongation (Yield)	1.0 %	ASTM D638
Flexural Modulus	31000 MPa	ASTM D790
Flexural Strength	317 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (3.18 mm)	64 J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	450 J/m	ASTM D4812
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	268 °C	ASTM D648
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	< 1.0E+5 ohm·cm	ASTM D257
Flammability	Nominal Value Unit	Test Method
Flame Rating - UL 1.50 mm, Values per RTP Company testing.	V-0	UL 94
Injection	Nominal Value Unit	
Drying Temperature	149 °C	
Drying Time	6.0 hr	
Suggested Max Moisture	0.040 %	
Processing (Melt) Temp	307 to 329 °C	
Mold Temperature	135 to 177 °C	
Injection Pressure	68.9 to 103 MPa	

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.