

RTP 2205 A

Polyether Ketone

RTP Company

Technical Data

Product Description

Glass Fiber

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
RoHS Compliance	• Contact Manufacturer
Processing Method	• Injection Molding

Physical

	Nominal Value Unit	Test Method
Specific Gravity	1.53 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 %	ASTM D955
Moisture Content	0.10 %	

Mechanical

	Nominal Value Unit	Test Method
Tensile Modulus	11700 MPa	ASTM D638
Tensile Strength	186 MPa	ASTM D638
Tensile Elongation (Yield)	3.0 %	ASTM D638
Flexural Modulus	11000 MPa	ASTM D790
Flexural Strength	283 MPa	ASTM D790

Impact

	Nominal Value Unit	Test Method
Notched Izod Impact (3.20 mm)	85 J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	850 J/m	ASTM D4812

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	> 316 °C	ASTM D648

Flammability

	Nominal Value Unit	Test Method
Flame Rating 1.50 mm, ** Values per RTP Company testing.	V-0	UL 94

Additional Information

	Nominal Value Unit
Primary Additive	30 %

Injection

	Nominal Value Unit
Drying Temperature	179 °C
Drying Time	2.0 hr
Dew Point	-28.9 °C
Processing (Melt) Temp	385 to 413 °C
Mold Temperature	179 to 218 °C
Injection Pressure	68.9 to 138 MPa

Injection Notes

Desiccant Type Dryer Required.