

# RTP 205.3 RC HS Black

Polyamide 66

RTP Company

## Technical Data

### Product Description

Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.

### General

Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized		
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• FORD WSK-M4D663-A	• GM GMP.PA66.013	• GM GMP.PA66.065
Appearance	• Black		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.39 g/cm <sup>3</sup>	1.39 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow (0.157 in (4.00 mm))	0.10 to 0.40 %	0.10 to 0.40 %	ISO 294-4

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.64E+6 psi	11300 MPa	ISO 527-2
Tensile Stress (Break)	28300 psi	195 MPa	ISO 527-2
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527-2
Flexural Modulus	1.41E+6 psi	9700 MPa	ISO 178
Flexural Stress	40600 psi	280 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength	5.2 ft·lb/in <sup>2</sup>	11 kJ/m <sup>2</sup>	ISO 180/1A

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	482 °F	250 °C	ISO 75-2/A

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Desiccant Dryer	176 °F	80.0 °C
Drying Time - Desiccant Dryer	4.0 hr	4.0 hr
Dew Point - Desiccant Dryer	-13.0 °F	-25.0 °C
Suggested Max Moisture	0.20 %	0.20 %
Processing (Melt) Temp	527 to 572 °F	275 to 300 °C
Mold Temperature	149 to 221 °F	65.0 to 105 °C
Injection Pressure	10200 to 18100 psi	70.0 to 125 MPa

### Injection Notes

Desiccant Type Dryer Required.