



# RTP Compounds 299 X 86888

RTP Company - Polyamide 66

## General Information

### 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	• Long Glass Fiber, 45 % Filler by Weight
Additive	• Heat Stabilizer
Features	• Good Moldability • Heat Stabilized
RoHS Compliance	• Contact Manufacturer
Appearance	• Black • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

### ASTM and ISO Properties <sup>1</sup>

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.52	1.52	ASTM D792
Molding Shrinkage			ASTM D955
Flow, 0.125 in (3.18 mm), Injection Molded	0.0010 to 0.0020 in/in	0.10 to 0.20 %	
Water Absorption (24 hr, 73 °F (23 °C))	0.80 %	0.80 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (Injection Molded)	2.20E+6 psi	15200 MPa	ASTM D638
Tensile Strength	33900 psi	234 MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	2.5 %	2.5 %	ASTM D638
Flexural Modulus (Injection Molded)	2.00E+6 psi	13800 MPa	ASTM D790
Flexural Strength (Injection Molded)	50000 psi	345 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
0.125 in (3.18 mm), Injection Molded	5.99 ft-lb/in	320 J/m	
Unnotched Izod Impact (0.125 in (3.18 mm))	24.0 ft-lb/in	1280 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, Injection Molded	450 °F	232 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating - UL (0.0591 in (1.50 mm))	HB	HB	UL 94

### Additional Properties

The value listed as Flammability, UL 94, was tested in accordance with RTP Company methods.

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<b>Processing Information</b>		
<b>Injection</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>
Rear Temperature	480 to 545 °F	249 to 285 °C
Middle Temperature	480 to 545 °F	249 to 285 °C
Front Temperature	480 to 545 °F	249 to 285 °C
Mold Temperature	151 to 255 °F	66.0 to 124 °C
Injection Pressure	4930 to 18000 psi	34.0 to 124 MPa

### Notes

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

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