## RTP 200 GB 30 TFE 15 SI 2

Polyamide 66

**RTP** Company

## Message:

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.

RTP 200 GB 30 TFE 15 SI 2 is a 30% glass bead filled nylon 6/6 containing PTFE and silicone. This material offers good dimensional stability and improved wear resistance.

General Information				
Filler / Reinforcement	Glass beads, 30% filler by weig	ıht		
Additive	PTFE lubricant (15%)			
	Silicone lubricant (2%)			
Features	Lubrication			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
	Natural color			
Forms	Particle			
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)	1.5	%	ASTM D955	
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	119		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	4140	MPa	ASTM D638	
Tensile Strength	55.2	MPa	ASTM D638	
Tensile Elongation (Break)	3.5	%	ASTM D638	
Flexural Modulus	3450	MPa	ASTM D790	
Flexural Strength	100	MPa	ASTM D790	
Compressive Strength	48.3	MPa	ASTM D695	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	37	J/m	ASTM D256	
Unnotched Izod Impact (3.18 mm)	270	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, not annealed	216	°C	ASTM D648	

1.8 MPa, not annealed87.8°CASTM D648CLTE - Flow5.8E-5cm/cm/°CASTM D696Thermal Conductivity0.36W/m/KASTM C177ElectricalNominal ValueUnitTest MethodVolume Resistivity1.0E+14ohms·cmASTM D257Dielectric Strength16K//mmASTM D190Dielectric Constant (1 MHz)3.75ASTM D150Dissipation Factor (1 MHz)0.016Volume ResistivityTest MethodBammabilityNominal ValueUnitTest MethodRamma Rating (1.59 mm)HBVUL 94Additional InformationVinVersenVersenThe value listed as Flammability, UL 94, wasNominal ValueUnitVersenDing Temperature79.4°CVersenVersenSuggested Max Moisture0.20%VersenVersenSuggested Max Regrind20.4°CVersenVersenMiddle Temperature274-288°CVersenVersenMiddle Temperature274-288°CVersenVersenMod Temperature656-107°CVersenVersenInjection Pressure827-124MeaVersenVersenNotion Pressure827-124MeaVersenVersenNotion Pressure827-124MeaVersenVersenNotion Pressure827-124MeaVersenVersenNotion Pressure827-124MeaVersenVersen				
Thermal Conductivity0.36W/m/KASTM C177ElectricalNominal ValueUnitTest MethodVolume Resistivity1.0E+14ohms·cmASTM D257Dielectric Strength16kV/mmASTM D149Dielectric Constant (1 MHz)3.75ASTM D150Dissipation Factor (1 MHz)0.016ASTM D150FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUnitTest MethodAdditional InformationVVul 94The value listed as Flammability, UL 94, wasInaccordance with RTP test stm/stm/stm/stmkage, Linear-Flow, ASTM D-955, 0.25in: 20mil/in.InjectionNominal ValueUnitDrying Temperature79.4°CSuggested Max Moisture0.20%Suggested Max Regrind20%Middle Temperature274 - 288°CFront Temperature274 - 288°CFront Temperature65.6 - 107°C	1.8 MPa, not annealed	87.8	°C	ASTM D648
ElectricalNominal ValueUnitTest MethodVolume Resistivity1.0E+14ohms·cmASTM D257Dielectric Strength16kV/mmASTM D149Dielectric Constant (1 MHz)3.75ASTM D150Dissipation Factor (1 MHz)0.016Test MethodFlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUL 94Additional InformationVolumeUL 94The value listed as Flammability, UL 94, wasNominal ValueUnitDing Temperature79.4°CDrying Temperature0.20%1	CLTE - Flow	5.8E-5	cm/cm/°C	ASTM D696
Volume Resistivity1.0E+14ohms·cmASTM D257Dielectric Strength16kV/mmASTM D149Dielectric Constant (1 MHz)3.75ASTM D150Dissipation Factor (1 MHz)0.016ViniMotionalFlammabilityNominal ValueUnitTest MethodAdditional InformationHBVViniViniThe value listed as Flammability, UL 94, was steet in accordance with RTP test starWashing, Linear-Flow, ASTM D-955, 0.25in: 20mil/n.Nominal ValueUnitInjectionNominal ValueUnitVerticeVerticeDrying Temperature9.4°CVerticeVerticeSuggested Max Moisture0.20%VerticeVerticeSuggested Max Regrind274 - 288°CVerticeVerticeMiddle Temperature274 - 288°CVerticeVerticeFront Temperature656 - 107°CVerticeVerticeNorm Comperature656 - 107°CVerticeVerticeNorm Comp	Thermal Conductivity	0.36	W/m/K	ASTM C177
Dielectric Strength16kV/mmASTM D149Dielectric Constant (1 MHz)3.75ASTM D150Dissipation Factor (1 MHz)0.016ASTM D150FlammabilityNominal ValueUnitTest MethodFlam Rating (1.59 mm)HBU 194Additional InformationVominal ValueU 194The value listed as Flammability, UL 94, was test test an accordance with RTP test stand-standard, Linear-Flow, ASTM D-955, 0.25in: 20mil/n.Nominal ValueInjectionNominal ValueUnitDrying Temperature79.4°CSuggested Max Moisture0.20%0.20%-Suggested Max Regrind274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CFront Temperature56.6 107°C	Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (1 MHz)3.75ASTM D150Dissipation Factor (1 MHz)0.016ASTM D150FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUL 94Additional InformationVert Vert Vert Vert Vert Vert Vert Vert	Volume Resistivity	1.0E+14	ohms∙cm	ASTM D257
Dissipation Factor (1 MHz)0.016ASTM D150FlammabilityNominal ValueUnitTest MethodFlame Rating (1.59 mm)HBUL 94Additional InformationSMOId Strinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/timeInjectionNominal ValueUnitDrying Temperature9.4Nominal Value	Dielectric Strength	16	kV/mm	ASTM D149
Flam mability Nominal Value Unit Test Method   Flame Rating (1.59 mm) HB UL 94   Additional Information Intervalue listed as Flammability, UL 94, was tested in accordance with RTP test stands. Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in: 20mil/in.   Injection Nominal Value Unit   Drying Temperature 79.4 °C   Suggested Max Moisture 0.20 %   Suggested Max Regrind 20 %   Middle Temperature 274 - 288 °C   Front Temperature 274 - 288 °C   Middle Temperature 65.6 - 107 °C	Dielectric Constant (1 MHz)	3.75		ASTM D150
Flame Rating (1.59 mm) HB UL 94   Additional Information Intervalue listed as Flammability, UL 94, was secondance with RTP test stands. Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in.   Injection Nominal Value Unit   Drying Temperature 79.4 °C   Drying Time 4.0 hr   Suggested Max Regrind 20 %   Rear Temperature 274 - 288 °C   Middle Temperature 274 - 288 °C   Front Temperature 274 - 288 °C	Dissipation Factor (1 MHz)	0.016		ASTM D150
Additional Information   The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in.   Injection Nominal Value Unit   Drying Temperature 79.4 °C   Drying Time 4.0 hr   Suggested Max Moisture 0.20 %   Suggested Max Regrind 20 %   Rear Temperature 274 - 288 °C   Middle Temperature 274 - 288 °C   Front Temperature 274 - 288 °C   Mold Temperature 65.6 - 107 °C	Flammability	Nominal Value	Unit	Test Method
The value listed as Flammability, UL 94, was tested in accordance with RTP test standers.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in.   Injection Nominal Value Unit   Drying Temperature 79.4 °C   Drying Time 4.0 hr   Suggested Max Moisture 0.20 %   Suggested Max Regrind 20 %   Rear Temperature 274 - 288 °C   Middle Temperature 274 - 288 °C   Front Temperature 274 - 288 °C   Mold Temperature 65.6 - 107 °C	Flame Rating (1.59 mm)	НВ		UL 94
InjectionNominal ValueUnitDrying Temperature79.4°CDrying Time4.0hrSuggested Max Moisture0.20%Suggested Max Regrind20%Rear Temperature274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CMod Temperature65.6 - 107°C	Additional Information			
Drying Temperature79.4°CDrying Time4.0hrSuggested Max Moisture0.20%Suggested Max Regrind20%Rear Temperature274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CMold Temperature65.6 - 107°C	The value listed as Flammability, UL	94, was tested in accordance with RTI	e test standards.Mold Shrinkage, Line	ear-Flow, ASTM D-955, 0.25in.: 20mil/in.
Drying Time4.0hrSuggested Max Moisture0.20%Suggested Max Regrind20%Rear Temperature274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CMold Temperature65.6 - 107°C	Injection	Nominal Value	Unit	
Suggested Max Moisture0.20%Suggested Max Regrind20%Rear Temperature274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CMold Temperature65.6 - 107°C	Drying Temperature	79.4	°C	
Suggested Max Regrind20%Rear Temperature274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CMold Temperature65.6 - 107°C	Drying Time	4.0	hr	
Rear Temperature274 - 288°CMiddle Temperature274 - 288°CFront Temperature274 - 288°CMold Temperature65.6 - 107°C	Suggested Max Moisture	0.20	%	
Niddle Temperature274 - 288°CFront Temperature274 - 288°CMold Temperature65.6 - 107°C	Suggested Max Regrind	20	%	
Front Temperature274 - 288°CMold Temperature65.6 - 107°C	Rear Temperature	274 - 288	°C	
Mold Temperature 65.6 - 107 °C	Middle Temperature	274 - 288	°C	
	Front Temperature	274 - 288	°C	
Injection Pressure 82.7 - 124 MPa	Mold Temperature	65.6 - 107	°C	
	Injection Pressure	82.7 - 124	MPa	

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