

# Tribocomp® PPA GF30 TS0

## polyphthalamide

Tribocomp® PPA GF30 TS0 is a 30% short glass fiber high-temperature PPA based on standard pellets that has

been reinforced and lubricated with PTFE. It can easily be processed on most injection molding machines.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• PTFE Lubricant		
Features	• Lubricated		
Appearance	• Black		

Physical	Dry	Conditioned	Unit	Test method
Density	1.55	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow	0.35	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test method
Tensile Modulus				ISO 527-2
23°C	11300	11000	MPa	
90°C	10300	7700	MPa	
120°C	8800	4300	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	185	170	MPa	
Yield, 90°C	140	105	MPa	
Yield, 120°C	115	75.0	MPa	
Tensile Strain (Break, 23°C)	2.2	2.2	%	ISO 527-2
Flexural Modulus (23°C)	10500	10000	MPa	ISO 178
Flexural Stress (23°C)	265	255	MPa	ISO 178
Coefficient of Friction <sup>1</sup>				ASTM D3702
vs. Itself - Dynamic	0.22	--		
vs. Itself - Static	0.18	--		
Wear Factor (23°C)	23.0	--		ASTM D3702

Impact	Dry	Conditioned	Unit	Test method
Charpy Notched Impact Strength (23°C)	9.0	--	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	--	kJ/m <sup>2</sup>	ISO 179

Thermal	Dry	Conditioned	Unit	Test method
Heat Deflection Temperature				
0.45 MPa, Unannealed	300	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	285	--	°C	ISO 75-2/A

# Tribocomp® PPA GF30 TSO

polyphthalamide

Thermal	Dry	Conditioned	Unit	Test method
CLTE - Flow (23°C)	2.5E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.30	--	W/m/K	ISO 22007

Electrical	Dry	Conditioned	Unit	Test method
Surface Resistivity	1.0E+12	--	ohms	ASTM D257
Electric Strength	35	--	kV/mm	IEC 60243-1
Comparative Tracking Index	550	--	V	IEC 60112

Injection	Dry Unit
Drying Temperature	120 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.080 %
Suggested Max Regrind	20 %
Rear Temperature	320 to 340 °C
Middle Temperature	320 to 335 °C
Front Temperature	320 to 335 °C
Nozzle Temperature	325 to 340 °C
Processing (Melt) Temp	< 340 °C
Mold Temperature	135 to 165 °C

## Injection Notes

Pre-drying -- Since polyamides are hygroscopic materials as well as sensitive to moisture during processing, this product should always be pre-dried.

Regrind -- Regrind of highly filled thermoplastic materials, such as this material, should only be recycled with special care. The regrind content must never exceed 20%, and only regrind of optimum quality should be used. In any case, part properties should be checked.

## Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> 23°C



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