

Tribocomp® PA612 CF30 TS12

polyamide 612

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific • Europe	• Latin America • North America	
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight	• PTFE Fiber, 15% Filler by Weight	
Forms	• Pellets		

Physical	Dry	Conditioned	Unit	Test method
Density	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test method
Tensile Modulus (23°C)	19000	17000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	220	195	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2
Flexural Modulus (23°C)	15000	--	MPa	ISO 178
Flexural Stress (23°C)	330	300	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test method
Charpy Notched Impact Strength (23°C)	12	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	--	kJ/m ²	ISO 179

Thermal	Dry	Conditioned	Unit	Test method
Heat Deflection Temperature				
0.45 MPa, Unannealed	210	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.1E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.55	--	W/m/K	ISO 22007

Electrical	Dry	Conditioned	Unit	Test method
Surface Resistivity	1.0E+2	--	ohms	ASTM D257

Extrusion	Dry	Unit
Cylinder Zone 1 Temp.	220 to 250	°C
Cylinder Zone 2 Temp.	220 to 260	°C
Cylinder Zone 3 Temp.	225 to 270	°C
Cylinder Zone 4 Temp.	230 to 280	°C