

Tribocomp® PP-C LGF30 TS12

polypropylene

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Long Glass Fiber, 30% Filler by Weight
Features	• Low Friction
Forms	• Pellets

Physical	Typical Value	Unit	Test method
Density	1.12	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.010	%	ISO 62

Mechanical	Typical Value	Unit	Test method
Tensile Modulus (23°C)	6300	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	115	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	7500	MPa	ISO 178
Flexural Stress (23°C)	165	MPa	ISO 178

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	44	kJ/m ²	ISO 179

Thermal	Typical Value	Unit	Test method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	135	°C	ISO 75-2/A
CLTE - Flow (23°C)	4.0E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.35	W/m/K	ISO 22007

Electrical	Typical Value	Unit	Test method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Electric Strength	45	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

Extrusion	Typical Value	Unit
Cylinder Zone 1 Temp.	200 to 250	°C
Cylinder Zone 2 Temp.	210 to 360	°C
Cylinder Zone 3 Temp.	220 to 270	°C
Cylinder Zone 4 Temp.	230 to 280	°C