

Nylatron[®] GS-51

PA66-GF32

32% Glass Reinforced, MoS2 Lubricated

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.4 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	10500 / 7500	MPa	ISO 527-1/-2
Stress at break	185 / 140	MPa	ISO 527-1/-2
Strain at break	3 / 5	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	10 / 20	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	7 / 10	kJ/m ²	ISO 179/1eA
Flexural modulus	9200 / -	MPa	ISO 178
Izod notched impact strength (+23°C)	9.5 / -	kJ/m ²	ISO 180/1A
Thermal properties	dry / cond		
Temp. of deflection under load (1.80 MPa)	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-2
Other properties	dry / cond		
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1400 / *	kg/m ³	ISO 1183

