

Torayca™ 3101T-20V

Nylon 66

TECHNICAL DATA

Product Description

CF20%

Uses

- Automotive Applications
- Gears
- Office Automation Equipment
- Printer

Processing Method

- Injection Molding

ISO Designation

- >PA66-CF20<

Type

- Short carbon fiber reinforced PA66

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.23	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.90	%	
Flow : 3.00 mm	0.30	%	
Water Absorption ² (Saturation, 23°C)	2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	230	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	%	ISO 527-2
Flexural Modulus (23°C)	13800	MPa	ISO 178
Flexural Stress (23°C)	310	MPa	ISO 178
Amount of Wear - vs. S45C ³	0.7	mg/hr	Suzuki Method
Coefficient of Friction - vs. S45C ³	0.32		Suzuki Method
Limiting Pressure Velocity - vs. S45C	2.3	MPa·m/s	Suzuki Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.8	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	255	°C	ISO 75-2/A
Melting Temperature	265	°C	DSC
CLTE			ISO 11359-2
Flow	2.2	cm ³ -5/cm/°C	
Transverse	2.6	cm ³ -5/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	0.010	ohms·m	JIS K7194
Surface Resistivity	10	ohms/cm ²	JIS K7194
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.79 mm)	HB		UL 94

Notes

¹ 80x80x3mm

² 50% RH

³ 1MPa, 0.33 m/s

