

Torayca™ 2701T-30V

Nylon 610

TECHNICAL DATA

Product Description

CF30%

Uses • Gears • Sporting Goods

Processing Method • Injection Molding

ISO Designation • >PA610-CF30<

Type • Short carbon fiber reinforced PA610

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.25	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.70	%	
Flow : 3.00 mm	0.20	%	
Water Absorption ² (Saturation, 23°C)	1.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	235	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.6	%	ISO 527-2
Flexural Modulus (23°C)	21100	MPa	ISO 178
Flexural Stress (23°C)	340	MPa	ISO 178
Amount of Wear - vs. S45C ³	0.3	mg/hr	Suzuki Method
Coefficient of Friction - vs. S45C ³	0.36		Suzuki Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	215	°C	
Melting Temperature	225	°C	DSC
CLTE			ISO 11359-2
Flow	1.6	cm ³ /cm/cm/°C	
Transverse	1.9	cm ³ /cm/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 ⁴ (Equivalent)	HB		Internal Method

Notes

¹ 80x80x3mm

² 50% RH

³ 1MPa, 0.33 m/s

⁴ UL94

