Torayca™ A630T-10V
PPS

TECHNICAL DATA

Product Description

CF10%, Flame retardant

Uses	• Automotive Applications • Computer Components	• Gears • Printer	• Valves/Valve Parts
Processing Method	• Injection Molding		
ISO Designation	• >PPS-CF10<		
Type	• Short carbon fiber reinforced PPS		

ASTM & ISO Properties

Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.38	g/cm³	ISO 1183
Molding Shrinkage [1]			Internal Method
Across Flow : 3.00 mm	0.80	%	
Flow : 3.00 mm	0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.4	%	ISO 527-2
Flexural Modulus (23°C)	10900	MPa	ISO 178
Flexural Stress (23°C)	235	MPa	ISO 178
Amount of Wear [2]			Suzuki Method
vs. S45C	0.3	mg/hr	
vs. SUS	0.5	mg/hr	
Coefficient of Friction [2]			Suzuki Method
vs. S45C	0.20		
vs. SUS	0.04		
Limiting Pressure Velocity			Suzuki Method
vs. S45C	0.9	MPa·m/s	
vs. SUS	0.7	MPa·m/s	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.2	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	> 260	°C	
Melting Temperature	278	°C	DSC
CLTE			ISO 11359-2
Flow	2.1	cm^-5/cm/°C	
Transverse	2.9	cm^-5/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0	ohms·m	JIS K7194
Surface Resistivity	1000	ohms/cm²	JIS K7194
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.72 mm)	V-0		UL 94

Notes

[1] 80x80x3mm

[2] 1MPa, 0.33 m/s