"TORAY"
Innovation by Chemistry

Carbon Fiber Reinforced Thermoplastic
TORAYCA

Torayca™ A630T-30V
PPS

TECHNICAL DATA

Product Description

CF30%, Flame retardant

Uses	• Automotive Applications • Computer Components	• Gears • Printer	• Valves/Valve Parts
Processing Method	• Injection Molding		
ISO Designation	• >PPS-CF30<		
Type	• Short carbon fiber reinforced PPS		

ASTM & ISO Properties

Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.46	g/cm³	ISO 1183
Molding Shrinkage [1]			Internal Method
Across Flow : 3.00 mm	0.70	%	
Flow : 3.00 mm	0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (23°C)	225	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	26300	MPa	ISO 178
Flexural Stress (23°C)	320	MPa	ISO 178
Amount of Wear [2]			Suzuki Method
vs. S45C	0.3	mg/hr	
vs. SUS	0.1	mg/hr	
Coefficient of Friction [2]			Suzuki Method
vs. S45C	0.29		
vs. SUS	0.08		
Limiting Pressure Velocity			Suzuki Method
vs. S45C	1.4	MPa·m/s	
vs. SUS	1.5	MPa·m/s	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	5.5	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	1.2	cm^-5/cm/°C	
Transverse	1.8	cm^-5/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	0.010	ohms·m	JIS K7194
Surface Resistivity	10	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

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