

Torayca® A512-X02N3

Polyphenylene Sulfide

Toray Resin Company

Message:

Torayca® A512-X02N3 is a Polyphenylene Sulfide (PPS) product filled with 10% carbon fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Flame Retardant

Wear Resistant

General Information			
Filler / Reinforcement	Carbon Fiber, 10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Wear Resistance		
	Low Friction		
Part Marking Code	>PPS-CF10<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.52	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.80	%	
Flow : 3.00 mm ²	0.20	%	
PV Limit			Suzuki Method
vs. S45C	2.9	MPa · m/s	
vs. SUS	2.0	MPa · m/s	
Amount of Wear ³			Suzuki Method
vs. S45C	0.200	mg/hr	
vs. SUS	0.500	mg/hr	
Coefficient of Friction ⁴			Suzuki Method
vs. S45C	0.150		
vs. SUS	0.0600		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Flexural Modulus (23°C)	9400	MPa	ISO 178
Flexural Stress (23°C)	156	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.7	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	260	°C	ISO 75-2/A

Melting Temperature	278	°C	DSC
CLTE - Flow	2.1E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	1MPa, 0.33 m/s		
4.	1MPa, 0.33 m/s		

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