

Torayca® 3101T-10V

Polyamide 66
Toray Resin Company

Message:

Torayca® 3101T-10V is a Polyamide 66 (Nylon 66) product filled with 10% carbon fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41797-102337007		
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Part Marking Code	>PA66-CF10<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.18	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	1.1	%	
Flow : 3.00 mm ²	0.40	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	%	
PV Limit - vs. S45C	2.3	MPa·m/s	Suzuki Method
Amount of Wear - vs. S45C ³	1.00	mg/hr	Suzuki Method
Coefficient of Friction - vs. S45C ⁴	0.330		Suzuki Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	175	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.8	%	ISO 527-2
Flexural Modulus (23°C)	8200	MPa	ISO 178
Flexural Stress (23°C)	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.1	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	°C	ISO 75-2/A
Melting Temperature	265	°C	DSC
CLTE - Flow	3.8E-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	HB		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	1MPa, 0.33 m/s		

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Recommended distributors for this material

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