

Torayca® 3101T-20V

Polyamide 66
Toray Resin Company

Message:

Torayca® 3101T-20V is a Polyamide 66 (Nylon 66) product filled with 20% 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,20% Filler by Weight		
Part Marking Code	>PA66-CF20<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.23	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.90	%	
Flow : 3.00 mm ²	0.30	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	
PV Limit - vs. S45C	2.3	MPa · m/s	Suzuki Method
Amount of Wear - vs. S45C ³	0.700	mg/hr	Suzuki Method
Coefficient of Friction - vs. S45C ⁴	0.320		Suzuki Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	223	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	%	ISO 527-2
Flexural Modulus (23°C)	13800	MPa	ISO 178
Flexural Stress (23°C)	310	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.1	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	250	°C	ISO 75-2/A
Melting Temperature	265	°C	DSC
CLTE - Flow	2.4E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0	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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