

Sorona® 3030GV BK001

RENEWABLY SOURCED™ THERMOPLASTIC POLYMER*

DuPont Performance Polymers

Message:

30% Glass Reinforced, Renewably Sourced, Polytrimethylene Terephthalate

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PTT-GF30<		
Resin ID (ISO 1043)	PTT-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10600	MPa	ISO 527-2
Tensile Stress (Break)	142	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	9400	MPa	ISO 178
Flexural Stress	215	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	226	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Melting Temperature ¹	227	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	32	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.30		
1 MHz	4.10		
Dissipation Factor			IEC 60250
100 Hz	1.5E-3		
1 MHz	0.016		
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20

0.750 mm	HB		
1.50 mm	HB		
Oxygen Index	21	%	ISO 4589-2
NOTE			
1.	10°C/min		

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