

Sorona® 3030G NC010

RENEWABLY SOURCED™ THERMOPLASTIC POLYMER*

DuPont Performance Polymers

Message:

30% Glass Reinforced Polytrimethylene Terephthalate

General Information			
UL YellowCard	E41938-101123482		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Mold Release		
Agency Ratings	UL Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Stress vs. Shear Rate (ISO 11403-1)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)	>PTT-GF30<		
Resin ID (ISO 1043)	PTT-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.20	%	
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2
Tensile Stress (Break)	165	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	9600	MPa	ISO 178
Flexural Stress	245	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m²	
23°C	9.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m²	
23°C	50	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	226	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature ¹	227	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	7.0E-6	cm/cm/°C	
Transverse	8.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	38	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	4.20		
1 MHz	4.00		
Dissipation Factor			IEC 60250
100 Hz	1.2E-3		
1 MHz	0.016		
Comparative Tracking Index	350	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	20	%	ISO 4589-2
Fill Analysis	Nominal Value	Unit	
Melt Density	1.35	g/cm ³	
NOTE			
1.	10°C/min		

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