



PRELIMINARY DATA

Sorona® 3030G NC010

Sorona® 3030G NC010 is a 30% glass fiber reinforced polytrimethylene terephthalate resin containing 25% renewably sourced ingredients by weight (37% based on polymer only) with good strength, stiffness and surface appearance and low warpage.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PTT-GF30
Part Marking Code	ISO 11469		>PTT-GF30<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	162 (23.5)
Strain at Break	ISO 527	%	2.5
Tensile Modulus	ISO 527	MPa (kpsi)	10400 (1510)
Poissons Ratio	ISO 527		0.35
Flexural Modulus	ISO 178	MPa (kpsi)	9600 (1390)
Flexural Strength	ISO 178	MPa (kpsi)	245 (35.5)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	
-30°C (-22°F)			9
23°C (73°F)			9
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	
-30°C (-22°F)			45
23°C (73°F)			50

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

Optimum processing conditions are dependent on many factors, including part thickness and geometry, and application requirements for dimensional stability and appearance. Contact your DuPont representative for additional information, if needed.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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 * DuPont™ Renewably Sourced™ Materials, including Sorona® EP, contain a minimum of 20% renewably sourced ingredient by weight

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Property	Test Method	Units	Value
Thermal			
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C (°F)	227 (441)
1.80MPa			210 (410)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	227 (441)
CLTE, Parallel -40 - 23°C (-40 - 73°F)	ISO 11359-1/-2	E-4/C (E-4/F)	0.25 (0.14)
23 - 55°C (73 - 130°F)			0.07 (0.04)
55 - 160°C (130 - 320°F)			0.16 (0.09)
CLTE, Normal -40 - 23°C (-40 - 73°F)	ISO 11359-1/-2	E-4/C (E-4/F)	0.67 (0.37)
23 - 55°C (73 - 130°F)			0.83 (0.46)
55 - 160°C (130 - 320°F)			1.20 (0.67)
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1560 (1.56)
Water Absorption Immersion 24h	ISO 62, Similar to	%	0.08
Molding Shrinkage, Parallel Mold 80°C, 2.0mm	ISO 294-4	%	0.3
Mold 110°C, 2.0mm			0.4
Molding Shrinkage, Normal Mold 80°C, 2.0mm	ISO 294-4	%	0.8
Mold 110°C, 2.0mm			0.8

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Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	240-260 (465-500)
Melt Temperature Optimum		°C (°F)	250 (480)
Mold Temperature Range		°C (°F)	80-110 (175-230)
Mold Temperature Optimum		°C (°F)	100 (212)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (250)
Processing Moisture Content		%	<0.02

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