

DuPont™ Rynite® PET

thermoplastic polyester resin

Rynite® GW520CS NC010

Rynite® GW520CS NC010 is a 20% glass fiber reinforced, flame retardant, color stabilized, modified polyethylene terephthalate resin.

Property	Test Method	Units	Value
Identification			
Part Marking Code	ISO 11469		>PET-GF20FR<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	145 (21)
Strain at Break	ISO 527	%	2.5
Tensile Modulus	ISO 527	MPa (kpsi)	9000 (1340)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	9
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	30
Thermal			
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C (°F)	232 (450)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	251 (484)
Electrical			
CTI	IEC 60112	V	200
CTI M	IEC 60112	V	125

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 unless otherwise stated.

Test temperatures are 23°C unless otherwise stated.

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Property	Test Method	Units	Value
Flammability			
Flammability Classification	UL94		
0.75mm			V-2
3.0mm			V-2
Glow Wire Flammability Index	IEC 60695-2-12	°C	
0.75mm			950
1.5mm			960
3.0mm			960
Glow Wire Ignition Temperature	IEC 60695-2-13	°C	
0.75mm			900
1.5mm			925
3.0mm			925
High Amperage Arc Ignition Resistance	UL 746A	arcs	
0.75mm			150
3.0mm			150
Hot Wire Ignition	UL 746A	s	
0.75mm			150
3.0mm			150
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.75mm			140
3.0mm			140
RTI, Impact	UL 746B	°C	
0.75mm			140
3.0mm			140
RTI, Strength	UL 746B	°C	
0.75mm			140
3.0mm			140
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1610 (1.61)

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Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	270-300 (520-570)
Melt Temperature Optimum		°C (°F)	280 (535)
Mold Temperature Range		°C (°F)	130 - 140 (266 - 284)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (250)
Processing Moisture Content		%	<0.02

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