

## DuPont Performance Polymers Rynite® GW520CS NC010 PET (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 20% Glass Reinforced

### Material Notes:

Rynite® GW520CS NC010 is a 20% glass fiber reinforced, flame retardant, color stabilized, modified polyethylene terephthalate resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Rynite-GW520CS-NC010-PET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-GW520CS-NC010-PET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in <sup>3</sup>	ISO 1183
Filler Content	20 %	20 %	
Melt Index of Compound	17 g/10 min @Load 2.16 kg, Temperature 280 °C	17 g/10 min @Load 4.76 lb, Temperature 536 °F	cm <sup>3</sup> /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa @Temperature 23.0 °C	21000 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.5 % @Temperature 23.0 °C	2.5 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	9.00 GPa @Temperature 23.0 °C	1310 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup> @Temperature 23.0 °C	14.3 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	251 °C	484 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	232 °C	450 °F	ISO 75-1/-2
UL RTI, Electrical	140 °C @Thickness 0.750 mm	284 °F @Thickness 0.0295 in	UL 746B

Thermal Properties	140 °C Metric	284 °F English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	140 °C	284 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	140 °C	284 °F	UL 746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	UL 746B
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	140 °C	284 °F	UL 746B
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	UL94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	UL94
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-2	V-2	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	900 °C	1650 °F	Ignition; IEC 60695-2-13
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	925 °C	1700 °F	

Thermal Properties	Metric	English	Comments
	925 °C @Thickness 1.50 mm	1700 °F @Thickness 0.0591 in	Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	950 °C @Thickness 0.750 mm	1740 °F @Thickness 0.0295 in	IEC 60695-2-12
	960 °C @Thickness 1.50 mm	1760 °F @Thickness 0.0591 in	IEC 60695-2-12
	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V @Temperature 23.0 °C	200 V @Temperature 73.4 °F	IEC 60112
	250 V @Temperature 23.0 °C	250 V @Temperature 73.4 °F	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	Optimum
	270 - 300 °C	518 - 572 °F	
Mold Temperature	130 - 140 °C	266 - 284 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Drying Recommended	Yes	
Filler	Glass fiber	
Forms	Pellets	
Generic	PET	
Material Status	Current	

Descriptive Properties	Value	Comments
Polymer Family	Polyester	
Polymer Type	PET	
Processing Method	Injection Molding	
Product Category	Color Stable Resins	
	Flame Retardant Resins	
	Glass Reinforced Resins	
Region Available - Global	Yes	
Resin Identification	PET-GF20FR	ISO 1043
RoHS Compliance	Contact Manufacturer	

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