

DuPont Performance Polymers Rynite® GW520CS NC010 Polyethylene Terephthalate (PET)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

20% Glass Reinforced Flame Retardant Polyethylene Terephthalate with Improved Glow Wire Performance 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-Polyethylene-Terephthalate-PET.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 280 °C	17 g/10 min @Load 4.76 lb, Temperature 536 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	ISO 527-1/-2
Tensile Stress	6.65 MPa @Strain 0.190 %, Temperature 150 °C	965 psi @Strain 0.190 %, Temperature 302 °F	ISO 11403-1 -2
	11.36 MPa @Strain 0.230 %, Temperature 90.0 °C	1648 psi @Strain 0.230 %, Temperature 194 °F	ISO 11403-1 -2
	30.76 MPa @Strain 1.22 %, Temperature 150 °C	4461 psi @Strain 1.22 %, Temperature 302 °F	ISO 11403-1 -2
	34.55 MPa @Strain 0.790 %, Temperature 90.0 °C	5011 psi @Strain 0.790 %, Temperature 194 °F	ISO 11403-1 -2
	42.36 MPa @Strain 0.520 %, Temperature 40.0 °C	6144 psi @Strain 0.520 %, Temperature 104 °F	ISO 11403-1 -2
	43.13 MPa @Strain 2.19 %, Temperature 150 °C	6255 psi @Strain 2.19 %, Temperature 302 °F	ISO 11403-1 -2

Mechanical Properties	51.11 MPa Metric	7413 psi English	Comments ISO 11403-1 -2
	@Strain 3.27 %, Temperature 150 °C	@Strain 3.27 %, Temperature 302 °F	
	52.15 MPa	7564 psi	ISO 11403-1 -2
	@Strain 1.35 %, Temperature 90.0 °C	@Strain 1.35 %, Temperature 194 °F	
	60.93 MPa	8837 psi	ISO 11403-1 -2
	@Strain 7.09 %, Temperature 150 °C	@Strain 7.09 %, Temperature 302 °F	
	66.32 MPa	9619 psi	ISO 11403-1 -2
	@Strain 0.770 %, Temperature 23.0 °C	@Strain 0.770 %, Temperature 73.4 °F	
	66.64 MPa	9665 psi	ISO 11403-1 -2
	@Strain 1.97 %, Temperature 90.0 °C	@Strain 1.97 %, Temperature 194 °F	
	68.3 MPa	9910 psi	ISO 11403-1 -2
	@Strain 0.900 %, Temperature 40.0 °C	@Strain 0.900 %, Temperature 104 °F	
	77.0 MPa	11200 psi	ISO 11403-1 -2
	@Strain 0.860 %, Temperature -20.0 °C	@Strain 0.860 %, Temperature -4.00 °F	
	77.04 MPa	11170 psi	ISO 11403-1 -2
	@Strain 0.880 %, Temperature 0.000 °C	@Strain 0.880 %, Temperature 32.0 °F	
	91.1 MPa	13200 psi	ISO 11403-1 -2
	@Strain 1.32 %, Temperature 40.0 °C	@Strain 1.32 %, Temperature 104 °F	
	101.52 MPa	14724 psi	ISO 11403-1 -2
	@Strain 1.30 %, Temperature 23.0 °C	@Strain 1.30 %, Temperature 73.4 °F	
	108.6 MPa	15750 psi	ISO 11403-1 -2
	@Strain 1.76 %, Temperature 40.0 °C	@Strain 1.76 %, Temperature 104 °F	
	121.11 MPa	17566 psi	ISO 11403-1 -2
	@Strain 1.73 %, Temperature 23.0 °C	@Strain 1.73 %, Temperature 73.4 °F	
	123.93 MPa	17975 psi	ISO 11403-1 -2
	@Strain 1.55 %,	@Strain 1.55 %,	

Mechanical Properties	Temperature 0.000 °C	Temperature 32.0 °F	Comments
	Metric	English	
	133.42 MPa	19351 psi	
	@Strain 1.65 %, Temperature -20.0 °C	@Strain 1.65 %, Temperature -4.00 °F	ISO 11403-1 -2
	142.03 MPa	20600 psi	
	@Strain 2.35 %, Temperature 23.0 °C	@Strain 2.35 %, Temperature 73.4 °F	ISO 11403-1 -2
	145.58 MPa	21115 psi	
	@Strain 1.98 %, Temperature 0.000 °C	@Strain 1.98 %, Temperature 32.0 °F	ISO 11403-1 -2
	157.63 MPa	22862 psi	
	@Strain 2.10 %, Temperature -20.0 °C	@Strain 2.10 %, Temperature -4.00 °F	ISO 11403-1 -2
	167.5 MPa	24290 psi	
	@Strain 2.61 %, Temperature 0.000 °C	@Strain 2.61 %, Temperature 32.0 °F	ISO 11403-1 -2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527-1/-2
	3.013 GPa	437.0 ksi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 11403-1 -2
	6.316 GPa	916.1 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	ISO 11403-1 -2
	9.165 GPa	1329 ksi	
	@Temperature -20.0 °C	@Temperature -4.00 °F	ISO 11403-1 -2
Secant Modulus	4.66 GPa	675 ksi	
	@Strain 2.83 %, Temperature 40.0 °C	@Strain 2.83 %, Temperature 104 °F	ISO 11403-1 -2
	5.52 GPa	801 ksi	
	@Strain 2.72 %, Temperature 23.0 °C	@Strain 2.72 %, Temperature 73.4 °F	ISO 11403-1 -2
	5.72 GPa	829 ksi	
	@Strain 2.07 %, Temperature 40.0 °C	@Strain 2.07 %, Temperature 104 °F	ISO 11403-1 -2
	6.51 GPa	945 ksi	
	@Strain 2.03 %, Temperature 23.0 °C	@Strain 2.03 %, Temperature 73.4 °F	ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	@Strain 1.48 %, Temperature 40.0 °C	@Strain 1.48 %, Temperature 104 °F	ISO 11403-1 -2
	7.12 GPa	1030 ksi	
	@Strain 2.13 %, Temperature 0.000 °C	@Strain 2.13 %, Temperature 32.0 °F	ISO 11403-1 -2
	7.29 GPa	1060 ksi	
	@Strain 2.26 %, Temperature -20.0 °C	@Strain 2.26 %, Temperature -4.00 °F	ISO 11403-1 -2
	7.59 GPa	1100 ksi	
	@Strain 0.900 %, Temperature 40.0 °C	@Strain 0.900 %, Temperature 104 °F	ISO 11403-1 -2
	7.81 GPa	1130 ksi	
	@Strain 1.30 %, Temperature 23.0 °C	@Strain 1.30 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.00 GPa	1160 ksi	
	@Strain 1.55 %, Temperature 0.000 °C	@Strain 1.55 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.09 GPa	1170 ksi	
	@Strain 1.65 %, Temperature -20.0 °C	@Strain 1.65 %, Temperature -4.00 °F	ISO 11403-1 -2
	8.15 GPa	1180 ksi	
	@Strain 0.520 %, Temperature 40.0 °C	@Strain 0.520 %, Temperature 104 °F	ISO 11403-1 -2
	8.61 GPa	1250 ksi	
	@Strain 0.770 %, Temperature 23.0 °C	@Strain 0.770 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.75 GPa	1270 ksi	
	@Strain 0.880 %, Temperature 0.000 °C	@Strain 0.880 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.95 GPa	1300 ksi	
	@Strain 0.860 %, Temperature -20.0 °C	@Strain 0.860 %, Temperature -4.00 °F	ISO 11403-1 -2
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	251 °C Metric	484 °F English	10°C/min: ISO 11357-1/-3 Comments
Deflection Temperature at 1.8 MPa (264 psi)	232 °C	450 °F	ISO 75-1/-2
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 60243-1
Comparative Tracking Index	125 V	125 V	IEC 60112
	200 V	200 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Part Marking Code	>PET-GF20FR<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
UL recognition	UL	

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