

DuPont Performance Polymers Rynite® RE5264 NC010 Polyethylene Terephthalate (PET) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 40% Glass Reinforced

Material Notes:

36% Glass Reinforced Polyethylene Terephthalate Rynite RE5264 NC010 is a 36% glass fiber reinforced color stabilized modified polyethylene terephthalate. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-RE5264-NC010-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577
Melt Flow	16 g/10 min @Load 5.00 kg, Temperature 280 °C	16 g/10 min @Load 11.0 lb, Temperature 536 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	207 MPa	30000 psi	ISO 527-1/-2
Tensile Stress	34.16 MPa @Strain 1.05 %, Temperature 150 °C	4954 psi @Strain 1.05 %, Temperature 302 °F	ISO 11403-1 -2
	48.51 MPa @Strain 0.370 %, Temperature 40.0 °C	7036 psi @Strain 0.370 %, Temperature 104 °F	ISO 11403-1 -2
	49.38 MPa @Strain 0.340 %, Temperature -20.0 °C	7162 psi @Strain 0.340 %, Temperature -4.00 °F	ISO 11403-1 -2
	50.61 MPa @Strain 0.890 %, Temperature 90.0 °C	7340 psi @Strain 0.890 %, Temperature 194 °F	ISO 11403-1 -2
	53.04 MPa @Strain 2.61 %, Temperature 150 °C	7693 psi @Strain 2.61 %, Temperature 302 °F	ISO 11403-1 -2
	58.39 MPa	8469 psi	ISO 11403-1 -2

Mechanical Properties	Metric @Strain 3.39 %, Temperature 150 °C	English @Strain 3.39 %, Temperature 302 °F	Comments
	61.19 MPa	8875 psi	
	@Strain 0.450 %, Temperature 23.0 °C	@Strain 0.450 %, Temperature 73.4 °F	ISO 11403-1 -2
	62.37 MPa	9046 psi	
	@Strain 0.450 %, Temperature 0.000 °C	@Strain 0.450 %, Temperature 32.0 °F	ISO 11403-1 -2
	63.54 MPa	9216 psi	
	@Strain 4.42 %, Temperature 150 °C	@Strain 4.42 %, Temperature 302 °F	ISO 11403-1 -2
	82.28 MPa	11930 psi	
	@Strain 2.21 %, Temperature 90.0 °C	@Strain 2.21 %, Temperature 194 °F	ISO 11403-1 -2
	89.69 MPa	13010 psi	
	@Strain 2.87 %, Temperature 90.0 °C	@Strain 2.87 %, Temperature 194 °F	ISO 11403-1 -2
	94.15 MPa	13660 psi	
	@Strain 3.53 %, Temperature 90.0 °C	@Strain 3.53 %, Temperature 194 °F	ISO 11403-1 -2
	113.15 MPa	16411 psi	
	@Strain 0.880 %, Temperature 23.0 °C	@Strain 0.880 %, Temperature 73.4 °F	ISO 11403-1 -2
	118.7 MPa	17220 psi	
	@Strain 1.02 %, Temperature 40.0 °C	@Strain 1.02 %, Temperature 104 °F	ISO 11403-1 -2
	126.69 MPa	18375 psi	
	@Strain 0.970 %, Temperature 0.000 °C	@Strain 0.970 %, Temperature 32.0 °F	ISO 11403-1 -2
	134.68 MPa	19534 psi	
	@Strain 1.01 %, Temperature -20.0 °C	@Strain 1.01 %, Temperature -4.00 °F	ISO 11403-1 -2
	140.18 MPa	20331 psi	
	@Strain 1.30 %, Temperature 40.0 °C	@Strain 1.30 %, Temperature 104 °F	ISO 11403-1 -2
	154.42 MPa	22397 psi	
	@Strain 1.33 %, Temperature 23.0 °C	@Strain 1.33 %, Temperature 73.4 °F	ISO 11403-1 -2

Mechanical Properties	156.11 MPa Metric	22642 psi English	Comments ISO 11403-1 -2
	@Strain 1.57 %, Temperature 40.0 °C	@Strain 1.57 %, Temperature 104 °F	
	161.35 MPa	23402 psi	
	@Strain 1.33 %, Temperature 0.000 °C	@Strain 1.33 %, Temperature 32.0 °F	ISO 11403-1 -2
	176.9 MPa	25660 psi	
	@Strain 1.43 %, Temperature -20.0 °C	@Strain 1.43 %, Temperature -4.00 °F	ISO 11403-1 -2
	178.06 MPa	25825 psi	
	@Strain 1.68 %, Temperature 23.0 °C	@Strain 1.68 %, Temperature 73.4 °F	ISO 11403-1 -2
	182.46 MPa	26464 psi	
	@Strain 1.59 %, Temperature 0.000 °C	@Strain 1.59 %, Temperature 32.0 °F	ISO 11403-1 -2
	198.28 MPa	28758 psi	
	@Strain 1.68 %, Temperature -20.0 °C	@Strain 1.68 %, Temperature -4.00 °F	ISO 11403-1 -2
Elongation at Break	2.4 %	2.4 %	ISO 527-1/-2
Tensile Modulus	14.0 GPa	2030 ksi	ISO 527-1/-2
Shear Modulus	0.558 GPa	80.9 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 170 °C	@Temperature 338 °F	
	0.626 GPa	90.8 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 130 °C	@Temperature 266 °F	
	1.892 GPa	274.4 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 70.0 °C	@Temperature 158 °F	
	2.408 GPa	349.3 ksi	Dynamic; ISO 11403-1 -2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	2.483 GPa	360.1 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.604 GPa	377.7 ksi	Dynamic; ISO 11403-1 -2
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Secant Modulus	8.25 GPa	1200 ksi	ISO 11403-1 -2
	@Strain 2.12 %, Temperature 40.0 °C	@Strain 2.12 %, Temperature 104 °F	

Mechanical Properties	Metric	English	Comments
	@Strain 2.20 %, Temperature 23.0 °C	@Strain 2.20 %, Temperature 73.4 °F	ISO 11403-1 -2
	9.34 GPa	1350 ksi	
	@Strain 1.76 %, Temperature 40.0 °C	@Strain 1.76 %, Temperature 104 °F	ISO 11403-1 -2
	10.1 GPa	1460 ksi	
	@Strain 1.86 %, Temperature 23.0 °C	@Strain 1.86 %, Temperature 73.4 °F	ISO 11403-1 -2
	10.5 GPa	1520 ksi	
	@Strain 1.39 %, Temperature 40.0 °C	@Strain 1.39 %, Temperature 104 °F	ISO 11403-1 -2
	10.7 GPa	1540 ksi	
	@Strain 1.94 %, Temperature 0.000 °C	@Strain 1.94 %, Temperature 32.0 °F	ISO 11403-1 -2
	11.4 GPa	1650 ksi	
	@Strain 1.85 %, Temperature -20.0 °C	@Strain 1.85 %, Temperature -4.00 °F	ISO 11403-1 -2
	11.4 GPa	1650 ksi	
	@Strain 1.41 %, Temperature 23.0 °C	@Strain 1.41 %, Temperature 73.4 °F	ISO 11403-1 -2
	11.6 GPa	1690 ksi	
	@Strain 1.02 %, Temperature 40.0 °C	@Strain 1.02 %, Temperature 104 °F	ISO 11403-1 -2
	11.9 GPa	1730 ksi	
	@Strain 1.41 %, Temperature 0.000 °C	@Strain 1.41 %, Temperature 32.0 °F	ISO 11403-1 -2
	12.2 GPa	1770 ksi	
	@Strain 1.52 %, Temperature -20.0 °C	@Strain 1.52 %, Temperature -4.00 °F	ISO 11403-1 -2
	12.858 GPa	1864.9 ksi	
	@Strain 0.880 %, Temperature 23.0 °C	@Strain 0.880 %, Temperature 73.4 °F	ISO 11403-1 -2
	13.1 GPa	1890 ksi	
	@Strain 0.970 %, Temperature 0.000 °C	@Strain 0.970 %, Temperature 32.0 °F	ISO 11403-1 -2
	13.1 GPa	1900 ksi	
			ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	13.3 GPa	1930 ksi	ISO 11403-1 -2
	@Strain 1.01 %, Temperature -20.0 °C	@Strain 1.01 %, Temperature -4.00 °F	
	13.6 GPa	1970 ksi	ISO 11403-1 -2
	@Strain 0.450 %, Temperature 23.0 °C	@Strain 0.450 %, Temperature 73.4 °F	
	13.86 GPa	2010 ksi	ISO 11403-1 -2
	@Strain 0.450 %, Temperature 0.000 °C	@Strain 0.450 %, Temperature 32.0 °F	
	14.5 GPa	2110 ksi	ISO 11403-1 -2
	@Strain 0.340 %, Temperature -20.0 °C	@Strain 0.340 %, Temperature -4.00 °F	
Charpy Impact Unnotched	6.50 J/cm²	30.9 ft-lb/in²	ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm²	5.71 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	246 °C	475 °F	10°C/min; ISO 11357-1/-3

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.5 kV/mm	546 kV/in	IEC 60243-1

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	

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