

DuPont Performance Polymers Rynite® 935 NC010 Polyethylene Terephthalate (PET) (Unverified Data**)

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

Material Notes:

35% Glass Reinforced Polyethylene Terephthalate Rynite 935 NC010 is a 35% mica/glass reinforced modified polyethylene terephthalate resin with exceptionally low warpage excellent electrical properties high stiffness and high heat resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-935-NC010-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php


Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Water Absorption	0.83 % @Thickness 2.00 mm	0.83 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.130 % @Thickness 2.00 mm	0.130 % @Thickness 0.0787 in	Sim. to ISO 62
Viscosity	37000 cP @Shear Rate 5000 1/s, Temperature 315 °C	37000 cP @Shear Rate 5000 1/s, Temperature 599 °F	ISO 11403-1 -2
	57000 cP @Shear Rate 5000 1/s, Temperature 295 °C	57000 cP @Shear Rate 5000 1/s, Temperature 563 °F	ISO 11403-1 -2
	93000 cP @Shear Rate 5000 1/s, Temperature 275 °C	93000 cP @Shear Rate 5000 1/s, Temperature 527 °F	ISO 11403-1 -2
	130000 cP @Shear Rate 500 1/s, Temperature 315 °C	130000 cP @Shear Rate 500 1/s, Temperature 599 °F	ISO 11403-1 -2
	203000 cP @Shear Rate 500 1/s, Temperature 295 °C	203000 cP @Shear Rate 500 1/s, Temperature 563 °F	ISO 11403-1 -2
	327000 cP @Shear Rate 500 1/s, Temperature 275 °C	327000 cP @Shear Rate 500 1/s, Temperature 527 °F	ISO 11403-1 -2

Linear Mold Shrinkage, Flow Physical Properties	0.0030 cm/cm Metric	0.0030 in/in English	ISO 294-4 2577 Comments
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4 2577
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 280 °C	5.0 g/10 min @Load 11.0 lb, Temperature 536 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ISO 2039-2
Hardness, Rockwell R	115	115	ISO 2039-2
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527-1/-2
Tensile Stress	16.9 MPa @Strain 0.200 %, Temperature 40.0 °C	2450 psi @Strain 0.200 %, Temperature 104 °F	ISO 11403-1 -2
	17.7 MPa @Strain 0.610 %, Temperature 90.0 °C	2570 psi @Strain 0.610 %, Temperature 194 °F	ISO 11403-1 -2
	19.5 MPa @Strain 0.210 %, Temperature 23.0 °C	2830 psi @Strain 0.210 %, Temperature 73.4 °F	ISO 11403-1 -2
	34.76 MPa @Strain 2.48 %, Temperature 90.0 °C	5042 psi @Strain 2.48 %, Temperature 194 °F	ISO 11403-1 -2
	37.49 MPa @Strain 4.29 %, Temperature 90.0 °C	5437 psi @Strain 4.29 %, Temperature 194 °F	ISO 11403-1 -2
	38.1 MPa @Strain 6.10 %, Temperature 90.0 °C	5530 psi @Strain 6.10 %, Temperature 194 °F	ISO 11403-1 -2
	50.34 MPa @Strain 0.800 %, Temperature 40.0 °C	7301 psi @Strain 0.800 %, Temperature 104 °F	ISO 11403-1 -2
	50.98 MPa @Strain 0.680 %, Temperature 23.0 °C	7394 psi @Strain 0.680 %, Temperature 73.4 °F	ISO 11403-1 -2
	62.0 MPa @Strain 1.40 %,	8990 psi @Strain 1.40 %,	ISO 11403-1 -2

Mechanical Properties	Temperature 40.0 °C Metric	Temperature 104 °F English	Comments
	65.77 MPa @Strain 1.20 %, Temperature 23.0 °C	9539 psi @Strain 1.20 %, Temperature 73.4 °F	ISO 11403-1 -2
	71.53 MPa @Strain 1.71 %, Temperature 23.0 °C	10370 psi @Strain 1.71 %, Temperature 73.4 °F	ISO 11403-1 -2
	10.0 MPa @Strain 0.126 %, Time 3.60e+6 sec	1450 psi @Strain 0.126 %, Time 1000 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.134 %, Time 1.80e+7 sec	1450 psi @Strain 0.134 %, Time 5000 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.139 %, Time 3.60e+7 sec	1450 psi @Strain 0.139 %, Time 10000 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.105 %, Time 3600 sec	1450 psi @Strain 0.105 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.109 %, Time 36000 sec	1450 psi @Strain 0.109 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	10.0 MPa @Strain 0.116 %, Time 360000 sec	1450 psi @Strain 0.116 %, Time 100 hour	isochronous; ISO 11403-1 -2
	40.0 MPa @Strain 0.624 %, Time 360000 sec	5800 psi @Strain 0.624 %, Time 100 hour	isochronous; ISO 11403-1 -2
	40.0 MPa @Strain 0.537 %, Time 36000 sec	5800 psi @Strain 0.537 %, Time 10.0 hour	isochronous; ISO 11403-1 -2
	40.0 MPa @Strain 0.489 %, Time 3600 sec	5800 psi @Strain 0.489 %, Time 1.00 hour	isochronous; ISO 11403-1 -2
	40.0 MPa @Strain 0.921 %, Time 3.60e+7 sec	5800 psi @Strain 0.921 %, Time 10000 hour	isochronous; ISO 11403-1 -2
	40.0 MPa	5800 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.870 %, Time 1.80e+7 sec	@Strain 0.870 %, Time 5000 hour	isochronous; ISO 11403-1 -2
	40.0 MPa	5800 psi	
	@Strain 0.749 %, Time 3.60e+6 sec	@Strain 0.749 %, Time 1000 hour	isochronous; ISO 11403-1 -2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	10.2 GPa	1480 ksi	ISO 527-1/-2
Flexural Modulus	9.10 GPa	1320 ksi	ISO 178
Shear Strength	0.0650 MPa	9.43 psi	
	@Shear Rate 500 1/s, Temperature 315 °C	@Shear Rate 500 1/s, Temperature 599 °F	ISO 11403-1 -2
	0.1015 MPa	14.72 psi	
	@Shear Rate 500 1/s, Temperature 295 °C	@Shear Rate 500 1/s, Temperature 563 °F	ISO 11403-1 -2
	0.1635 MPa	23.71 psi	
	@Shear Rate 500 1/s, Temperature 275 °C	@Shear Rate 500 1/s, Temperature 527 °F	ISO 11403-1 -2
Secant Modulus	3.98 GPa	577 ksi	
	@Strain 1.60 %, Temperature 40.0 °C	@Strain 1.60 %, Temperature 104 °F	ISO 11403-1 -2
	4.94 GPa	716 ksi	
	@Strain 1.39 %, Temperature 23.0 °C	@Strain 1.39 %, Temperature 73.4 °F	ISO 11403-1 -2
	6.2925 GPa	912.66 ksi	
	@Strain 0.800 %, Temperature 40.0 °C	@Strain 0.800 %, Temperature 104 °F	ISO 11403-1 -2
	7.50 GPa	1090 ksi	
	@Strain 0.680 %, Temperature 23.0 °C	@Strain 0.680 %, Temperature 73.4 °F	ISO 11403-1 -2
	8.45 GPa	1230 ksi	
	@Strain 0.200 %, Temperature 40.0 °C	@Strain 0.200 %, Temperature 104 °F	ISO 11403-1 -2
	9.29 GPa	1350 ksi	
	@Strain 0.210 %, Temperature 23.0 °C	@Strain 0.210 %, Temperature 73.4 °F	ISO 11403-1 -2
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	2.00 J/cm ² Metric	9.52 ft-lb/in ² English	Comments 
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	6620 MPa	961000 psi	ISO 11403-1 -2
	@Pressure 50.0 MPa, Temperature 23.0 °C	@Pressure 7250 psi, Temperature 73.4 °F	
	8180 MPa	1.19e+6 psi	ISO 11403-1 -2
	@Pressure 40.0 MPa, Temperature 23.0 °C	@Pressure 5800 psi, Temperature 73.4 °F	
	8900 MPa	1.29e+6 psi	ISO 11403-1 -2
	@Pressure 30.0 MPa, Temperature 23.0 °C	@Pressure 4350 psi, Temperature 73.4 °F	
	9260 MPa	1.34e+6 psi	ISO 11403-1 -2
	@Pressure 20.0 MPa, Temperature 23.0 °C	@Pressure 2900 psi, Temperature 73.4 °F	
	9520 MPa	1.38e+6 psi	ISO 11403-1 -2
	@Pressure 10.0 MPa, Temperature 23.0 °C	@Pressure 1450 psi, Temperature 73.4 °F	
	9350 MPa	1.36e+6 psi	ISO 899-1
	@Time 3600 sec	@Time 1.00 hour	
Tensile Creep Modulus, 1000 hours	3420 MPa	497000 psi	ISO 11403-1 -2
	@Pressure 50.0 MPa, Temperature 23.0 °C	@Pressure 7250 psi, Temperature 73.4 °F	
	5340 MPa	775000 psi	ISO 11403-1 -2
	@Pressure 40.0 MPa, Temperature 23.0 °C	@Pressure 5800 psi, Temperature 73.4 °F	
	6420 MPa	932000 psi	ISO 11403-1 -2
	@Pressure 30.0 MPa, Temperature 23.0 °C	@Pressure 4350 psi, Temperature 73.4 °F	
	7270 MPa	1.05e+6 psi	ISO 11403-1 -2
	@Pressure 20.0 MPa, Temperature 23.0 °C	@Pressure 2900 psi, Temperature 73.4 °F	

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