

## DuPont Performance Polymers Rynite® 935SUV BK593 Polyethylene Terephthalate (PET) (Unverified Data\*\*)

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

### Material Notes:

35% Glass Reinforced UV Stabilized Polyethylene Terephthalate Rynite 935SUV BK593 is a 35% glass fiber /mineral reinforced UV stabilized modified polyethylene terephthalate resin with low warpage developed for long-term outdoor applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Rynite-935SUV-BK593-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-935SUV-BK593-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-1/-2
Tensile Stress	1.94 MPa	281 psi	ISO 11403-1 -2
	@Strain 0.0700 %, Temperature 150 °C	@Strain 0.0700 %, Temperature 302 °F	
	2.36 MPa	342 psi	ISO 11403-1 -2
	@Strain 0.0400 %, Temperature 90.0 °C	@Strain 0.0400 %, Temperature 194 °F	
	2.79 MPa	405 psi	ISO 11403-1 -2
	@Strain 0.0300 %, Temperature 0.000 °C	@Strain 0.0300 %, Temperature 32.0 °F	
	3.57 MPa	518 psi	ISO 11403-1 -2
	@Strain 0.0300 %, Temperature -20.0 °C	@Strain 0.0300 %, Temperature -4.00 °F	
	3.84 MPa	557 psi	ISO 11403-1 -2
	@Strain 0.0300 %, Temperature 40.0 °C	@Strain 0.0300 %, Temperature 104 °F	
	3.89 MPa	564 psi	ISO 11403-1 -2
	@Strain 0.0400 %, Temperature -40.0 °C	@Strain 0.0400 %, Temperature -40.0 °F	
	4.27 MPa	619 psi	

Mechanical Properties	Metric	English	Comments
	@Strain 0.0300 %, Temperature 23.0 °C	@Strain 0.0300 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>6.42 MPa</b>	<b>931 psi</b>	
	@Strain 0.290 %, Temperature 150 °C	@Strain 0.290 %, Temperature 302 °F	ISO 11403-1 -2
	<b>6.93 MPa</b>	<b>1010 psi</b>	
	@Strain 0.170 %, Temperature 90.0 °C	@Strain 0.170 %, Temperature 194 °F	ISO 11403-1 -2
	<b>8.95 MPa</b>	<b>1300 psi</b>	
	@Strain 0.110 %, Temperature 0.000 °C	@Strain 0.110 %, Temperature 32.0 °F	ISO 11403-1 -2
	<b>10.36 MPa</b>	<b>1503 psi</b>	
	@Strain 0.110 %, Temperature -20.0 °C	@Strain 0.110 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>10.74 MPa</b>	<b>1558 psi</b>	
	@Strain 0.100 %, Temperature 40.0 °C	@Strain 0.100 %, Temperature 104 °F	ISO 11403-1 -2
	<b>11.09 MPa</b>	<b>1608 psi</b>	
	@Strain 0.110 %, Temperature -40.0 °C	@Strain 0.110 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>11.87 MPa</b>	<b>1722 psi</b>	
	@Strain 0.110 %, Temperature 23.0 °C	@Strain 0.110 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>22.09 MPa</b>	<b>3204 psi</b>	
	@Strain 2.48 %, Temperature 150 °C	@Strain 2.48 %, Temperature 302 °F	ISO 11403-1 -2
	<b>23.21 MPa</b>	<b>3366 psi</b>	
	@Strain 0.250 %, Temperature 40.0 °C	@Strain 0.250 %, Temperature 104 °F	ISO 11403-1 -2
	<b>24.94 MPa</b>	<b>3617 psi</b>	
	@Strain 4.68 %, Temperature 150 °C	@Strain 4.68 %, Temperature 302 °F	ISO 11403-1 -2
	<b>25.99 MPa</b>	<b>3770 psi</b>	
	@Strain 0.250 %, Temperature 23.0 °C	@Strain 0.250 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>26.74 MPa</b>	<b>3878 psi</b>	
	@Strain 8.76 %, Temperature 150 °C	@Strain 8.76 %, Temperature 302 °F	ISO 11403-1 -2

Mechanical Properties	Metric Pa	English	Comments
	@Strain 1.15 %, Temperature 90.0 °C	@Strain 1.15 %, Temperature 194 °F	ISO 11403-1 -2
	<b>30.74 MPa</b>	<b>4458 psi</b>	
	@Strain 0.310 %, Temperature 0.000 °C	@Strain 0.310 %, Temperature 32.0 °F	ISO 11403-1 -2
	<b>32.66 MPa</b>	<b>4737 psi</b>	
	@Strain 0.300 %, Temperature -20.0 °C	@Strain 0.300 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>35.35 MPa</b>	<b>5127 psi</b>	
	@Strain 0.310 %, Temperature -40.0 °C	@Strain 0.310 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>38.74 MPa</b>	<b>5619 psi</b>	
	@Strain 2.48 %, Temperature 90.0 °C	@Strain 2.48 %, Temperature 194 °F	ISO 11403-1 -2
	<b>40.33 MPa</b>	<b>5849 psi</b>	
	@Strain 5.44 %, Temperature 90.0 °C	@Strain 5.44 %, Temperature 194 °F	ISO 11403-1 -2
	<b>52.44 MPa</b>	<b>7606 psi</b>	
	@Strain 0.770 %, Temperature 40.0 °C	@Strain 0.770 %, Temperature 104 °F	ISO 11403-1 -2
	<b>62.03 MPa</b>	<b>8997 psi</b>	
	@Strain 0.820 %, Temperature 23.0 °C	@Strain 0.820 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>70.05 MPa</b>	<b>10160 psi</b>	
	@Strain 0.870 %, Temperature 0.000 °C	@Strain 0.870 %, Temperature 32.0 °F	ISO 11403-1 -2
	<b>71.79 MPa</b>	<b>10410 psi</b>	
	@Strain 2.36 %, Temperature 40.0 °C	@Strain 2.36 %, Temperature 104 °F	ISO 11403-1 -2
	<b>76.17 MPa</b>	<b>11050 psi</b>	
	@Strain 0.800 %, Temperature -20.0 °C	@Strain 0.800 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>78.37 MPa</b>	<b>11370 psi</b>	
	@Strain 0.720 %, Temperature -40.0 °C	@Strain 0.720 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>84.17 MPa</b>	<b>12210 psi</b>	
			ISO 11403-1 -2

Mechanical Properties	@Strain 2.30 %, Metric Temperature 23.0 °C	@Strain 2.30 %, English Temperature 73.4 °F	Comments
	100.7 MPa	14610 psi	
	@Strain 2.25 %, Temperature 0.000 °C	@Strain 2.25 %, Temperature 32.0 °F	ISO 11403-1 -2
	117.13 MPa	16988 psi	
	@Strain 2.01 %, Temperature -20.0 °C	@Strain 2.01 %, Temperature -4.00 °F	ISO 11403-1 -2
	130.53 MPa	18932 psi	
	@Strain 1.71 %, Temperature -40.0 °C	@Strain 1.71 %, Temperature -40.0 °F	ISO 11403-1 -2
Elongation at Break	2.3 %	2.3 %	ISO 527-1/-2
Tensile Modulus	9.70 GPa	1410 ksi	ISO 527-1/-2
	4.21 GPa	611 ksi	
Secant Modulus	@Strain 1.66 %, Temperature 40.0 °C	@Strain 1.66 %, Temperature 104 °F	ISO 11403-1 -2
	4.8491 GPa	703.31 ksi	
	@Strain 1.67 %, Temperature 23.0 °C	@Strain 1.67 %, Temperature 73.4 °F	ISO 11403-1 -2
	5.59 GPa	811 ksi	
	@Strain 1.68 %, Temperature 0.000 °C	@Strain 1.68 %, Temperature 32.0 °F	ISO 11403-1 -2
	5.92 GPa	858 ksi	
	@Strain 1.01 %, Temperature 40.0 °C	@Strain 1.01 %, Temperature 104 °F	ISO 11403-1 -2
	6.58 GPa	954 ksi	
	@Strain 1.06 %, Temperature 23.0 °C	@Strain 1.06 %, Temperature 73.4 °F	ISO 11403-1 -2
	6.99 GPa	1010 ksi	
	@Strain 1.53 %, Temperature -20.0 °C	@Strain 1.53 %, Temperature -4.00 °F	ISO 11403-1 -2
	7.16 GPa	1040 ksi	
	@Strain 1.11 %, Temperature 0.000 °C	@Strain 1.11 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.14 GPa	1180 ksi	
	@Strain 0.110 %, Temperature 0.000 °C	@Strain 0.110 %, Temperature 32.0 °F	ISO 11403-1 -2

Mechanical Properties	8.18 GPa Metric	1190 ksi English	Comments 1 -2
	@Strain 0.470 %, Temperature 40.0 °C	@Strain 0.470 %, Temperature 104 °F	
	<b>8.68 GPa</b>	<b>1260 ksi</b>	
	@Strain 1.01 %, Temperature -20.0 °C	@Strain 1.01 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>8.93 GPa</b>	<b>1300 ksi</b>	
	@Strain 1.30 %, Temperature -40.0 °C	@Strain 1.30 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>9.30 GPa</b>	<b>1350 ksi</b>	
	@Strain 0.0300 %, Temperature 0.000 °C	@Strain 0.0300 %, Temperature 32.0 °F	ISO 11403-1 -2
	<b>9.36 GPa</b>	<b>1360 ksi</b>	
	@Strain 0.550 %, Temperature 0.000 °C	@Strain 0.550 %, Temperature 32.0 °F	ISO 11403-1 -2
	<b>9.40 GPa</b>	<b>1360 ksi</b>	
	@Strain 0.480 %, Temperature 23.0 °C	@Strain 0.480 %, Temperature 73.4 °F	ISO 11403-1 -2
	<b>9.42 GPa</b>	<b>1370 ksi</b>	
	@Strain 0.110 %, Temperature -20.0 °C	@Strain 0.110 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>9.725 GPa</b>	<b>1411 ksi</b>	
	@Strain 0.0400 %, Temperature -40.0 °C	@Strain 0.0400 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>10.1 GPa</b>	<b>1460 ksi</b>	
	@Strain 0.110 %, Temperature -40.0 °C	@Strain 0.110 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>10.4 GPa</b>	<b>1510 ksi</b>	
	@Strain 0.880 %, Temperature -40.0 °C	@Strain 0.880 %, Temperature -40.0 °F	ISO 11403-1 -2
	<b>10.5 GPa</b>	<b>1520 ksi</b>	
	@Strain 0.530 %, Temperature -20.0 °C	@Strain 0.530 %, Temperature -4.00 °F	ISO 11403-1 -2
	<b>10.74 GPa</b>	<b>1558 ksi</b>	
	@Strain 0.100 %, Temperature 40.0 °C	@Strain 0.100 %, Temperature 104 °F	ISO 11403-1 -2
	<b>10.8 GPa</b>	<b>1570 ksi</b>	
	@Strain 0.110 %, Temperature 23.0 °C	@Strain 0.110 %, Temperature 73.4 °F	ISO 11403-1 -2

Mechanical Properties	Metric	English	Comments
	11.9 GPa	1730 ksi	
	@Strain 0.490 %, Temperature -40.0 °C	@Strain 0.490 %, Temperature -40.0 °F	ISO 11403-1 -2
	11.9 GPa	1730 ksi	
	@Strain 0.0300 %, Temperature -20.0 °C	@Strain 0.0300 %, Temperature -4.00 °F	ISO 11403-1 -2

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China