

DuPont Performance Polymers Rynite® 540SUV BK544 Polyethylene Terephthalate (PET) (Unverified Data**)

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

Material Notes:

40% Glass Reinforced UV Stabilized Polyethylene Terephthalate Developed for Extrusion and Injection Molding Rynite 540SUV BK544 is a 40% glass fiber reinforced UV stabilized modified polyethylene terephthalate resin for injection molding and extrusion. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-540SUV-BK544-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Water Absorption	0.60 % @Thickness 2.00 mm	0.60 % @Thickness 0.0787 in	Sim. to ISO 62
Moisture Absorption	0.150 % @Thickness 2.00 mm	0.150 % @Thickness 0.0787 in	Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	162 MPa	23500 psi	ISO 527-1/-2
Tensile Stress	2.05 MPa @Strain 0.0600 %, Temperature 90.0 °C	297 psi @Strain 0.0600 %, Temperature 194 °F	ISO 11403-1 -2
	2.79 MPa @Strain 0.0400 %, Temperature 40.0 °C	405 psi @Strain 0.0400 %, Temperature 104 °F	ISO 11403-1 -2
	2.89 MPa @Strain 0.0400 %, Temperature 23.0 °C	419 psi @Strain 0.0400 %, Temperature 73.4 °F	ISO 11403-1 -2
	3.01 MPa @Strain 0.0700 %, Temperature 150 °C	437 psi @Strain 0.0700 %, Temperature 302 °F	ISO 11403-1 -2
	3.13 MPa	454 psi	ISO 11403-1 -2

Mechanical Properties	Metric @Strain 0.0400 %, Temperature 0.000 °C	English @Strain 0.0400 %, Temperature 32.0 °F	Comments
	3.85 MPa	558 psi	
	@Strain 0.0400 %, Temperature -20.0 °C	@Strain 0.0400 %, Temperature -4.00 °F	ISO 11403-1 -2
	4.10 MPa	595 psi	
	@Strain 0.0400 %, Temperature -40.0 °C	@Strain 0.0400 %, Temperature -40.0 °F	ISO 11403-1 -2
	9.40 MPa	1360 psi	
	@Strain 0.260 %, Temperature 150 °C	@Strain 0.260 %, Temperature 302 °F	ISO 11403-1 -2
	13.67 MPa	1983 psi	
	@Strain 0.200 %, Temperature 90.0 °C	@Strain 0.200 %, Temperature 194 °F	ISO 11403-1 -2
	14.93 MPa	2165 psi	
	@Strain 0.140 %, Temperature 40.0 °C	@Strain 0.140 %, Temperature 104 °F	ISO 11403-1 -2
	15.13 MPa	2194 psi	
	@Strain 0.130 %, Temperature 23.0 °C	@Strain 0.130 %, Temperature 73.4 °F	ISO 11403-1 -2
	15.43 MPa	2238 psi	
	@Strain 0.130 %, Temperature 0.000 °C	@Strain 0.130 %, Temperature 32.0 °F	ISO 11403-1 -2
	17.77 MPa	2577 psi	
	@Strain 0.130 %, Temperature -40.0 °C	@Strain 0.130 %, Temperature -40.0 °F	ISO 11403-1 -2
	21.47 MPa	3114 psi	
	@Strain 0.170 %, Temperature -20.0 °C	@Strain 0.170 %, Temperature -4.00 °F	ISO 11403-1 -2
	32.08 MPa	4653 psi	
	@Strain 0.210 %, Temperature -40.0 °C	@Strain 0.210 %, Temperature -40.0 °F	ISO 11403-1 -2
	32.32 MPa	4688 psi	
	@Strain 0.270 %, Temperature 40.0 °C	@Strain 0.270 %, Temperature 104 °F	ISO 11403-1 -2
	37.1 MPa	5380 psi	
	@Strain 1.99 %, Temperature 150 °C	@Strain 1.99 %, Temperature 302 °F	ISO 11403-1 -2

Mechanical Properties	37.99 MPa Metric	5510 psi English	Comments ISO 11403-1 -2
	@Strain 0.300 %, Temperature 0.000 °C	@Strain 0.300 %, Temperature 32.0 °F	
	39.84 MPa	5778 psi	
	@Strain 0.290 %, Temperature -20.0 °C	@Strain 0.290 %, Temperature -4.00 °F	ISO 11403-1 -2
	45.46 MPa	6593 psi	
	@Strain 0.900 %, Temperature 90.0 °C	@Strain 0.900 %, Temperature 194 °F	ISO 11403-1 -2
	46.09 MPa	6685 psi	
	@Strain 3.43 %, Temperature 150 °C	@Strain 3.43 %, Temperature 302 °F	ISO 11403-1 -2
	51.17 MPa	7422 psi	
	@Strain 0.390 %, Temperature 23.0 °C	@Strain 0.390 %, Temperature 73.4 °F	ISO 11403-1 -2
	58.2 MPa	8440 psi	
	@Strain 7.82 %, Temperature 150 °C	@Strain 7.82 %, Temperature 302 °F	ISO 11403-1 -2
	65.07 MPa	9438 psi	
	@Strain 1.82 %, Temperature 90.0 °C	@Strain 1.82 %, Temperature 194 °F	ISO 11403-1 -2
	68.87 MPa	9989 psi	
	@Strain 0.610 %, Temperature 40.0 °C	@Strain 0.610 %, Temperature 104 °F	ISO 11403-1 -2
	87.33 MPa	12670 psi	
	@Strain 5.93 %, Temperature 90.0 °C	@Strain 5.93 %, Temperature 194 °F	ISO 11403-1 -2
	95.95 MPa	13920 psi	
	@Strain 0.600 %, Temperature -40.0 °C	@Strain 0.600 %, Temperature -40.0 °F	ISO 11403-1 -2
	99.27 MPa	14400 psi	
	@Strain 0.830 %, Temperature 23.0 °C	@Strain 0.830 %, Temperature 73.4 °F	ISO 11403-1 -2
	100.21 MPa	14534 psi	
	@Strain 0.800 %, Temperature 0.000 °C	@Strain 0.800 %, Temperature 32.0 °F	ISO 11403-1 -2
	116.09 MPa	16837 psi	
	@Strain 0.870 %,	@Strain 0.870 %,	ISO 11403-1 -2

Mechanical Properties	Temperature -20.0 °C Metric	Temperature -4.00 °F English	Comments
	141.6 MPa	20340 psi	
	@Strain 2.70 %, Temperature 40.0 °C	@Strain 2.70 %, Temperature 104 °F	ISO 11403-1 -2
	164.13 MPa	23805 psi	
	@Strain 2.40 %, Temperature 23.0 °C	@Strain 2.40 %, Temperature 73.4 °F	ISO 11403-1 -2
	191.12 MPa	27720 psi	
	@Strain 2.25 %, Temperature 0.000 °C	@Strain 2.25 %, Temperature 32.0 °F	ISO 11403-1 -2
	214.94 MPa	31174 psi	
	@Strain 2.14 %, Temperature -20.0 °C	@Strain 2.14 %, Temperature -4.00 °F	ISO 11403-1 -2
	221.48 MPa	32123 psi	
	@Strain 1.82 %, Temperature -40.0 °C	@Strain 1.82 %, Temperature -40.0 °F	ISO 11403-1 -2
Elongation at Break	2.3 %	2.3 %	ISO 527-1/-2
Tensile Modulus	13.5 GPa	1960 ksi	ISO 527-1/-2
Secant Modulus	6.975 GPa	1012 ksi	
	@Strain 0.0400 %, Temperature 40.0 °C	@Strain 0.0400 %, Temperature 104 °F	ISO 11403-1 -2
	7.08 GPa	1030 ksi	
	@Strain 1.90 %, Temperature 40.0 °C	@Strain 1.90 %, Temperature 104 °F	ISO 11403-1 -2
	7.225 GPa	1048 ksi	
	@Strain 0.0400 %, Temperature 23.0 °C	@Strain 0.0400 %, Temperature 73.4 °F	ISO 11403-1 -2
	7.825 GPa	1135 ksi	
	@Strain 0.0400 %, Temperature 0.000 °C	@Strain 0.0400 %, Temperature 32.0 °F	ISO 11403-1 -2
	8.76 GPa	1270 ksi	
	@Strain 1.74 %, Temperature 23.0 °C	@Strain 1.74 %, Temperature 73.4 °F	ISO 11403-1 -2
	9.625 GPa	1396 ksi	
	@Strain 0.0400 %, Temperature -20.0 °C	@Strain 0.0400 %, Temperature -4.00 °F	ISO 11403-1 -2
	9.84 GPa	1430 ksi	

Mechanical Properties	@Strain 1.04 %, Metric Temperature 40.0 °C	@Strain 1.04 %, English Temperature 104 °F	ISO 11403-1 -2 Comments
	10.25 GPa	1487 ksi	
	@Strain 0.0400 %, Temperature -40.0 °C	@Strain 0.0400 %, Temperature -40.0 °F	ISO 11403-1 -2
	10.4 GPa	1510 ksi	
	@Strain 1.58 %, Temperature 0.000 °C	@Strain 1.58 %, Temperature 32.0 °F	ISO 11403-1 -2
	10.7 GPa	1550 ksi	
	@Strain 0.140 %, Temperature 40.0 °C	@Strain 0.140 %, Temperature 104 °F	ISO 11403-1 -2
	10.8 GPa	1570 ksi	
	@Strain 1.15 %, Temperature 23.0 °C	@Strain 1.15 %, Temperature 73.4 °F	ISO 11403-1 -2
	11.4 GPa	1650 ksi	
	@Strain 1.67 %, Temperature -20.0 °C	@Strain 1.67 %, Temperature -4.00 °F	ISO 11403-1 -2
	11.6 GPa	1690 ksi	
	@Strain 0.130 %, Temperature 23.0 °C	@Strain 0.130 %, Temperature 73.4 °F	ISO 11403-1 -2
	11.7 GPa	1700 ksi	
	@Strain 0.370 %, Temperature 40.0 °C	@Strain 0.370 %, Temperature 104 °F	ISO 11403-1 -2
	11.9 GPa	1720 ksi	
	@Strain 0.130 %, Temperature 0.000 °C	@Strain 0.130 %, Temperature 32.0 °F	ISO 11403-1 -2
	12.2 GPa	1770 ksi	
	@Strain 0.990 %, Temperature 0.000 °C	@Strain 0.990 %, Temperature 32.0 °F	ISO 11403-1 -2
	12.6 GPa	1830 ksi	
	@Strain 0.170 %, Temperature -20.0 °C	@Strain 0.170 %, Temperature -4.00 °F	ISO 11403-1 -2
	12.7 GPa	1840 ksi	
	@Strain 1.17 %, Temperature -20.0 °C	@Strain 1.17 %, Temperature -4.00 °F	ISO 11403-1 -2
	12.9 GPa	1870 ksi	
	@Strain 0.620 %, Temperature 0.000 °C	@Strain 0.620 %, Temperature 32.0 °F	ISO 11403-1 -2

Mechanical Properties	13.0 GPa Metric	1880 ksi English	Comments ISO 11403-1 -2
	@Strain 0.480 %, Temperature 23.0 °C	@Strain 0.480 %, Temperature 73.4 °F	
	13.7 GPa	1980 ksi	ISO 11403-1 -2
	@Strain 1.40 %, Temperature -40.0 °C	@Strain 1.40 %, Temperature -40.0 °F	
	13.7 GPa	1980 ksi	ISO 11403-1 -2
	@Strain 0.130 %, Temperature -40.0 °C	@Strain 0.130 %, Temperature -40.0 °F	

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