

DuPont Performance Polymers Rynite® RE5329 BK503 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 Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-RE5329-BK503-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4 2577
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 280 °C	20 g/10 min @Load 4.76 lb, Temperature 536 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Tensile Stress	6.22 MPa @Strain 0.230 %, Temperature 150 °C	902 psi @Strain 0.230 %, Temperature 302 °F	ISO 11403-1 -2
	12.27 MPa @Strain 0.250 %, Temperature 90.0 °C	1780 psi @Strain 0.250 %, Temperature 194 °F	ISO 11403-1 -2
	19.58 MPa @Strain 1.15 %, Temperature 150 °C	2840 psi @Strain 1.15 %, Temperature 302 °F	ISO 11403-1 -2
	25.86 MPa @Strain 2.40 %, Temperature 150 °C	3751 psi @Strain 2.40 %, Temperature 302 °F	ISO 11403-1 -2
	25.99 MPa @Strain 0.230 %, Temperature 23.0 °C	3770 psi @Strain 0.230 %, Temperature 73.4 °F	ISO 11403-1 -2
	28.28 MPa @Strain 0.230 %, Temperature -20.0 °C	4102 psi @Strain 0.230 %, Temperature -4.00 °F	ISO 11403-1 -2

Mechanical Properties	Metric (MPa)	English (psi)	Comments
	@Strain 0.230 %, Temperature 0.000 °C	@Strain 0.230 %, Temperature 32.0 °F	ISO 11403-1 -2
	28.63 MPa	4152 psi	
	@Strain 3.80 %, Temperature 150 °C	@Strain 3.80 %, Temperature 302 °F	ISO 11403-1 -2
	29.16 MPa	4229 psi	
	@Strain 0.230 %, Temperature 40.0 °C	@Strain 0.230 %, Temperature 104 °F	ISO 11403-1 -2
	33.79 MPa	4901 psi	
	@Strain 1.00 %, Temperature 90.0 °C	@Strain 1.00 %, Temperature 194 °F	ISO 11403-1 -2
	44.27 MPa	6421 psi	
	@Strain 1.93 %, Temperature 90.0 °C	@Strain 1.93 %, Temperature 194 °F	ISO 11403-1 -2
	49.83 MPa	7227 psi	
	@Strain 3.11 %, Temperature 90.0 °C	@Strain 3.11 %, Temperature 194 °F	ISO 11403-1 -2
	54.87 MPa	7958 psi	
	@Strain 0.510 %, Temperature 23.0 °C	@Strain 0.510 %, Temperature 73.4 °F	ISO 11403-1 -2
	55.86 MPa	8102 psi	
	@Strain 0.480 %, Temperature 40.0 °C	@Strain 0.480 %, Temperature 104 °F	ISO 11403-1 -2
	57.86 MPa	8392 psi	
	@Strain 0.470 %, Temperature -20.0 °C	@Strain 0.470 %, Temperature -4.00 °F	ISO 11403-1 -2
	63.22 MPa	9169 psi	
	@Strain 0.530 %, Temperature 0.000 °C	@Strain 0.530 %, Temperature 32.0 °F	ISO 11403-1 -2
	76.51 MPa	11100 psi	
	@Strain 0.830 %, Temperature 40.0 °C	@Strain 0.830 %, Temperature 104 °F	ISO 11403-1 -2
	77.76 MPa	11280 psi	
	@Strain 0.830 %, Temperature 23.0 °C	@Strain 0.830 %, Temperature 73.4 °F	ISO 11403-1 -2
	85.86 MPa	12450 psi	

Mechanical Properties	Metric @Strain 0.750 %, Temperature -20.0 °C	English @Strain 0.750 %, Temperature -4.00 °F	ISO 11403-1 -2 Comments
	89.19 MPa	12940 psi	
	@Strain 0.870 %, Temperature 0.000 °C	@Strain 0.870 %, Temperature 32.0 °F	ISO 11403-1 -2
	90.66 MPa	13150 psi	
	@Strain 1.42 %, Temperature 40.0 °C	@Strain 1.42 %, Temperature 104 °F	ISO 11403-1 -2
	96.37 MPa	13980 psi	
	@Strain 1.27 %, Temperature 23.0 °C	@Strain 1.27 %, Temperature 73.4 °F	ISO 11403-1 -2
	110.83 MPa	16075 psi	
	@Strain 1.41 %, Temperature 0.000 °C	@Strain 1.41 %, Temperature 32.0 °F	ISO 11403-1 -2
	112.06 MPa	16253 psi	
	@Strain 1.19 %, Temperature -20.0 °C	@Strain 1.19 %, Temperature -4.00 °F	ISO 11403-1 -2
Elongation at Break	2.2 %	2.2 %	ISO 527-1/-2
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527-1/-2
	4.7735 GPa	692.35 ksi	
Secant Modulus	@Strain 2.00 %, Temperature 40.0 °C	@Strain 2.00 %, Temperature 104 °F	ISO 11403-1 -2
	6.33 GPa	918 ksi	
	@Strain 1.66 %, Temperature 23.0 °C	@Strain 1.66 %, Temperature 73.4 °F	ISO 11403-1 -2
	7.92 GPa	1150 ksi	
	@Strain 1.59 %, Temperature -20.0 °C	@Strain 1.59 %, Temperature -4.00 °F	ISO 11403-1 -2
	8.21 GPa	1190 ksi	
	@Strain 1.00 %, Temperature 40.0 °C	@Strain 1.00 %, Temperature 104 °F	ISO 11403-1 -2
	8.87 GPa	1290 ksi	
	@Strain 0.950 %, Temperature 23.0 °C	@Strain 0.950 %, Temperature 73.4 °F	ISO 11403-1 -2
	9.4951 GPa	1377.2 ksi	
	@Strain 1.02 %, Temperature 0.000 °C	@Strain 1.02 %, Temperature 32.0 °F	ISO 11403-1 -2

Mechanical Properties	10.7 GPa Metric	1560 ksi English	Comments 1 -2
	@Strain 0.890 %, Temperature -20.0 °C	@Strain 0.890 %, Temperature -4.00 °F	
	10.8 GPa	1560 ksi	ISO 11403-1 -2
	@Strain 0.510 %, Temperature 23.0 °C	@Strain 0.510 %, Temperature 73.4 °F	
	11.3 GPa	1640 ksi	ISO 11403-1 -2
	@Strain 0.230 %, Temperature 23.0 °C	@Strain 0.230 %, Temperature 73.4 °F	
	11.6 GPa	1690 ksi	ISO 11403-1 -2
	@Strain 0.480 %, Temperature 40.0 °C	@Strain 0.480 %, Temperature 104 °F	
	11.9 GPa	1730 ksi	ISO 11403-1 -2
	@Strain 0.530 %, Temperature 0.000 °C	@Strain 0.530 %, Temperature 32.0 °F	
	12.3 GPa	1780 ksi	ISO 11403-1 -2
	@Strain 0.230 %, Temperature 0.000 °C	@Strain 0.230 %, Temperature 32.0 °F	
	12.3 GPa	1780 ksi	ISO 11403-1 -2
	@Strain 0.230 %, Temperature -20.0 °C	@Strain 0.230 %, Temperature -4.00 °F	
	12.3 GPa	1790 ksi	ISO 11403-1 -2
	@Strain 0.470 %, Temperature -20.0 °C	@Strain 0.470 %, Temperature -4.00 °F	
	12.7 GPa	1840 ksi	ISO 11403-1 -2
	@Strain 0.230 %, Temperature 40.0 °C	@Strain 0.230 %, Temperature 104 °F	
Charpy Impact Unnotched	2.10 J/cm ²	9.99 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.340 J/cm ²	1.62 ft-lb/in ²	ISO 179/1eA

Descriptive Properties	Value	Comments
Additives	Release agent	
Delivery Form	Pellets	
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	

Descriptive Properties	Global Value	Comments
	Near East/Africa	
	North America	
	South and Central America	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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