

DuPont Performance Polymers Rynite® 940 BK505 Polyethylene Terephthalate (PET) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

40% Glass/Mineral Reinforced Polyethylene Terephthalate Rynite 940 BK505 is a 40% mica/glass reinforced modified polyethylene terephthalate with greater strength stiffness and low warpage. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-940-BK505-Polyethylene-Terephthalate-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ASTM D792
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 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
Hardness, Rockwell M	75	75	ASTM D785
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Elongation at Break	1.8 %	1.8 %	ISO 527-1/-2
Tensile Modulus	12.5 GPa	1810 ksi	ISO 527-1/-2
Flexural Modulus	13.0 GPa	1890 ksi	ISO 178
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179/1eU
	3.50 J/cm ² @Temperature -40.0 °C	16.7 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179/1eA
	0.600 J/cm ² @Temperature -40.0 °C	2.86 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	ISO 11359-1/-2
	22.0 µm/m-°C	12.2 µin/in-°F	
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
	54.0 µm/m-°C	30.0 µin/in-°F	
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
	84.0 µm/m-°C	46.7 µin/in-°F	
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	ISO 11359-1/-2
Melting Point	250 °C	482 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	241 °C	466 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.7	3.7	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	3.8	3.8	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0070	0.0070	
	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.015	0.015	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PET-(GF+MD)40<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
	Europe	
	Global	
	Near East/Africa	
	North America	
	South and Central America	
Resin Identification	PET-(GF+MD)40	
UL recognition	UL	

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