

DuPont Performance Polymers Rynite® 940 NC010 PET (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-940-NC010-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in³	ISO 1183
Water Absorption	0.10 %	0.10 %	Equilibrium 50%RH; ISO 62, Similar to
	@Thickness 1.00 mm, Temperature 23.0 °C	@Thickness 0.0394 in, Temperature 73.4 °F	
	0.75 %	0.75 %	Saturation, immersed; ISO 62, Similar to
	@Thickness 1.00 mm, Temperature 23.0 °C	@Thickness 0.0394 in, Temperature 73.4 °F	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Melt Index of Compound	10 g/10 min	10 g/10 min	cm³/10 min; ISO 1133
	@Load 5.00 kg, Temperature 280 °C	@Load 11.0 lb, Temperature 536 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	2.0 %	2.0 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.00 J/cm²	14.3 ft-lb/in²	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 J/cm²	14.3 ft-lb/in²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties Charpy Impact, Notched	0.600 J/cm² Metric	2.86 ft-lb/in² English	Comments ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm²	3.33 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	500 µm/m-°C	278 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	250 °C	482 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz, Temperature 23.0 °C	@Frequency 1.00e+6 Hz, Temperature 73.4 °F	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz, Temperature 23.0 °C	@Frequency 100 Hz, Temperature 73.4 °F	
Dielectric Strength	38.0 kV/mm	965 kV/in	IEC 60243-1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dissipation Factor	0.0070	0.0070	IEC 60250
	@Frequency 100 Hz, Temperature 23.0 °C	@Frequency 100 Hz, Temperature 73.4 °F	
	0.015	0.015	

Electrical Properties	Metric	English	Comments
	Temperature 23.0 °C	Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	285 °C	545 °F	Optimum
	280 - 300 °C	536 - 572 °F	
Mold Temperature	>= 95.0 °C	>= 203 °F	
	110 °C	230 °F	optimum
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	

Descriptive Properties	Value	Comments
Drying Recommended	Yes	
Generic	PET	
Heat Stabilized	Yes	
Part Marking Code	>PET-(GF+MD)40<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PET	
Product Category	Glass/Mineral Reinforced Resins	
	Low Warp Resins	
Region Available - Global	Yes	
Resin Identification	PET-(GF+MD)40	ISO 1043
Ultrasonic Weldable	Yes	

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