

DuPont Performance Polymers Rynite® RE5264 NC010 PET (Unverified Data**)

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

Material Notes:

Rynite® RE5264 NC010 is a 36% glass fiber reinforced, color stabilized, modified polyethylene terephthalate. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-RE5264-NC010-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Filler Content	36 %	36 %	
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 2.00 mm	0.0030 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 2.00 mm	0.0080 in/in @Thickness 0.0787 in	ISO 294-4
Melt Index of Compound	27 g/10 min @Load 5.00 kg, Temperature 280 °C	27 g/10 min @Load 11.0 lb, Temperature 536 °F	cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	207 MPa @Temperature 23.0 °C	30000 psi @Temperature 73.4 °F	ISO 527
Elongation at Break	2.4 % @Temperature 23.0 °C	2.4 % @Temperature 73.4 °F	ISO 527
Tensile Modulus	14.0 GPa @Temperature 23.0 °C	2030 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact Unnotched	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	246 °C	475 °F	10°C/min; ISO 11357-1/-3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	238 °C	460 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	228 °C	442 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.5 kV/mm @Temperature 23.0 °C	546 kV/in @Temperature 73.4 °F	IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
	280 °C	536 °F	Optimum
Mold Temperature	>= 130 °C	>= 266 °F	
	140 °C	284 °F	optimum
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	<= 0.010 %	<= 0.010 %	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Drying Recommended	Yes	
Filler	Glass fiber	
Forms	Pellets	
Generic	PET	
Material Status	Preliminary Data	
Processing Method	Injection Molding	
Product Category	Color Stable Resins	
	Glass Reinforced Resins	
Region Available - Global	Yes	
RoHS Compliance	Contact Manufacturer	

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