

DuPont Performance Polymers Rynite® RE5231 BK533 PET (Unverified Data**)

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

Material Notes:

Rynite® RE5231 BK533 is a 35% glass fiber/mica reinforced product modified for improved electrical properties such as dielectric strength. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-RE5231-BK533-PET-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Flow
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0090 cm/cm	0.0090 in/in	Transverse
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	94.0 MPa	13600 psi	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Strength	94.0 MPa	13600 psi	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	2.0 %	2.0 %	ASTM D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.0 %	2.0 %	ISO 527
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	147 MPa	21300 psi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	9.60 GPa	1390 ksi	ASTM D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	5.00 J/cm	9.37 ft-lb/in	ASTM D4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	ISO 75-1/-2
	216 °C	421 °F	ASTM D648
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	UL94
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.8 kV/mm	351 kV/in	Short Time; ASTM D149
	@Thickness 3.20 mm, Temperature 200 °C	@Thickness 0.126 in, Temperature 392 °F	
	25.6 kV/mm	650 kV/in	Short Time; ASTM D149
	@Thickness 3.20 mm, Temperature 120 °C	@Thickness 0.126 in, Temperature 248 °F	
	>= 28.0 kV/mm	>= 711 kV/in	Short Time; ASTM D149
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	

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

Descriptive Properties	Value	Comments
Appearance	Black Color	
Drying Recommended	Yes	
Features	Dimensional Stability, Good	
	Electrical Properties, Good	
	Stiffness, Good	

Descriptive Properties	Strength, Good Value	Comments
	Thermal Aging Resistance, Good	
	Warp Resistant	
Filler	Glass/Mica	
Forms	Pellets	
Generic	PET	
Heat Stabilized	Yes	
Material Status	Current	
Part Marking Code	>PET-(GF+MD)35<	ISO 11469
Polymer Family	Polyester	
Polymer Type	PET	
Processing Method	Injection Molding	
Product Category	Electrical Resins	
	Glass/Mineral Reinforced Resins	
	Low Warp Resins	
Resin Identification	PET-(GF+MD)35	ISO 1043
RoHS Compliance	Contact Manufacturer	
Ultrasonic Weldable	Yes	
Uses	Automotive Applications	
	Electrical Parts	
	Electrical/Electronic Applications	
	Housings	
	Phenolic Replacement	
	Structural Parts	

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