



# Rynite® PET

thermoplastic polyester resin

## Rynite® 530 BK503

Rynite® 530 BK503 is a 30% glass reinforced modified polyethylene terephthalate with outstanding balance of strength, stiffness, and toughness, excellent electrical properties, surface appearance, and chemical resistance.

Property	Test Method	Units	Value
<b>Mechanical</b>			
Stress at Break	ISO 527-1/-2	MPa	150
Strain at Break	ISO 527-1/-2	%	2.1
Tensile Modulus	ISO 527-1/-2	MPa	10200
Flexural Modulus	ISO 178	MPa	8940
Flexural Strength	ISO 178	MPa	210
Notched Charpy Impact	ISO 179/1eA	kJ/m2	9.5
Unnotched Charpy Impact	ISO 179/1eU	kJ/m2	52
<b>Thermal</b>			
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C	244
1.80MPa			221
<b>Electrical</b>			
Electric Strength 2000 V/s, in oil, 2.0mm	IEC 60243-1	kV/mm	22.0
<b>Flammability</b>			
Rating @ Thickness	UL94		HB
Thickness Tested	UL94	mm	0.8
<b>Temperature Index</b>			
RTI, Electrical	UL 746B	°C	140
RTI, Mechanical with Impact	UL 746B	°C	140
RTI, Mechanical without Impact	UL 746B	°C	140

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

Shrinkage generated per ISO 294-4 based on 60 X 60mm end-gated plaques or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques.

Rynite® PET is a DuPont registered trademark.

000315/000331

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-51459 or H-50102.

**Start with DuPont Engineering Polymers - [www.dupont.com/enggpolymer](http://www.dupont.com/enggpolymer)**

# Product Information

## Rynite® 530 BK503

Property	Test Method	Units	Value
<b>Other</b>			
Density	ISO 1183		1.56
Mold Shrinkage	CR350	%	
Normal, 2.0mm			0.9
Parallel, 2.0mm			0.3
<b>Processing</b>			
Melt Temperature Range		°C	280-300
Mold Temperature Range		°C	>95
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C	120
Processing Moisture Content		%	0.02

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

Shrinkage generated per ISO 294-4 based on 60 X 60mm end-gated plaques or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques.

Rynite® PET is a DuPont registered trademark.

000315/000331

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since DuPont cannot anticipate all variations in actual end-use conditions DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights. Caution: Do not use this product in medical applications involving permanent implantation in the human body. For other medical applications see "DuPont Medical Caution Statement", H-51459 or H-50102.

**Start with DuPont Engineering Polymers - [www.dupont.com/enggpolymer](http://www.dupont.com/enggpolymer)**