

# DuPont™ Rynite® PET

thermoplastic polyester resin

PRELIMINARY DATA

## Rynite® SST35 BK503

Rynite® SST35 BK503 is a 35% stiffened super tough glass reinforced modified polyethylene terephthalate with superior combination of toughness and stiffness. Excellent surface appearance, moldability, and temperature resistance.

Property	Test Method	Units	Value
<b>Identification</b>			
Resin Identification	ISO 1043		PET-IGF35
Part Marking Code	ISO 11469		>PET-IGF35<
<b>Mechanical</b>			
Stress at Break	ISO 527	MPa (kpsi)	94 (14)
Strain at Break	ISO 527	%	6
Tensile Modulus	ISO 527	MPa (kpsi)	7500 (1087)
Flexural Modulus	ISO 178	MPa (kpsi)	6827 (989)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	
-30°C (-22°F)			14
23°C (73°F)			22
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	71
<b>Thermal</b>			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
1.80MPa			212 (414)
<b>Electrical</b>			
CTI	IEC 60112	V	400-600
CTI	UL 746A	V	
3.0mm			400-600

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

**The above data are preliminary and are subject to change as additional data are developed on subsequent lots.**

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## Rynite® SST35 BK503

Property	Test Method	Units	Value
<b>Flammability</b>			
Flammability Classification	IEC 60695-11-10		
0.75mm			HB
1.5mm			HB
3.0mm			HB
Flammability Classification	UL94		
0.75mm			HB
1.5mm			HB
3.0mm			HB
Glow Wire Flammability Index	IEC 60695-2-12	°C	
0.75mm			775
1.5mm			725
3.0mm			825
Glow Wire Ignition Temperature	IEC 60695-2-13	°C	
0.75mm			800
1.5mm			750
3.0mm			825
<b>Temperature Index</b>			
RTI, Electrical	UL 746B	°C	
0.75mm			150
1.5mm			150
3.0mm			150
RTI, Impact	UL 746B	°C	
0.75mm			150
1.5mm			150
3.0mm			150

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Property	Test Method	Units	Value
<b>Temperature Index</b>			
RTI, Strength	UL 746B	°C	
0.75mm			150
1.5mm			150
3.0mm			150
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1520 (1.52)
<b>Processing</b>			
Melt Temperature Range		°C (°F)	270-290 (520-555)
Melt Temperature Optimum		°C (°F)	280 (535)
Mold Temperature Range		°C (°F)	>95 (>205)
Mold Temperature Optimum		°C (°F)	110 (230)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (250)
Processing Moisture Content		%	<0.02

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