DuPont[™] Rynite[®] PET

thermoplastic polyester resin

Rynite® 935 BK505

 $Rynite^{\$}\ 935\ BK505\ is\ a\ 35\%\ mica/glass\ reinforced\ modified\ polyethylene\ terephthalate\ resin\ with\ exceptionally\ lower than the support of the polyethylene and the polyethylene and the polyethylene are supported by the polyethylene and the polyethylene and the polyethylene are supported by the polyethylene and the polyethylene are supported by the polyethylene and the polyethylene are supported by the polyethylene are support$

warpage, excellent electrical properties, high stiffness, and high heat resistance.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PET-(MD+GF)35
Part Marking Code	ISO 11469		>PET-(MD+GF)35<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	
-40°C (-40°F)			173 (16)
23°C (73°F)			82 (11.9)
150°C (300°F)			25 (3.7)
Strain at Break	ISO 527	%	
-40°C (-40°F)			1.8
23°C (73°F)			2
150°C (300°F)			5.6
Tensile Modulus	ISO 527	MPa (kpsi)	
-40°C (-40°F)			13020 (1890)
23°C (73°F)			10200 (1480)
150°C (300°F)			2480 (360)

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 plagues or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques

The DuPont Oval Logo, DuPontTM, The miracles of scienceTM and Rynite® are trademarks or registered trademarks of DuPont Company. Copyright© 2008

080225/080226



Product Information

Rynite® 935 BK505

Property	Test Method	Units	Value
Mechanical			
Flexural Modulus	ISO 178	MPa (kpsi)	
-40°C (-40°F)			10880 (1580)
23°C (73°F)			9300 (1350)
Flexural Strength	ISO 178	MPa (kpsi)	
-40°C (-40°F)			190 (28)
23°C (73°F)			132 (19)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	
-40°C (-40°F)			4
-30°C (-22°F)			4
23°C (73°F)			5.5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	
-40°C (-40°F)			21.5
23°C (73°F)			25
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			240 (464)
1.80MPa			200 (392)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			252 (486)
Electrical			
Electric Strength	IEC 60243-1	kV/mm (V/mil)	
2000 V/s, in oil, 2.0mm			25.0 (636)
Relative Permittivity	IEC 60250		
1E6 Hz			4
Dissipation Factor	IEC 60250	E-4	
1E6 Hz			150

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.

The DuPont Oval Logo, DuPont TM , The miracles of science TM and Rynite® are trademarks or registered trademarks of DuPont Company. Copyright© 2008

080225/080226



Product Information

Rynite® 935 BK505

Property	Test Method	Units	Value
Flammability			
Flammability Classification	IEC 60695-11-10		
0.75mm			HB75
1.5mm			HB75
3.0mm			HB40
Flammability Classification	UL94		
0.75mm			НВ
1.5mm			НВ
3.0mm			НВ
Glow Wire Flammability Index	IEC 60695-2-12	°C	
0.75mm			775
1.5mm			775
3.0mm			825
Glow Wire Ignition Temperature	IEC 60695-2-13	°C	
0.75mm			800
1.5mm			800
3.0mm			850
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.75mm			140
1.5mm			140
3.0mm			140
RTI, Impact	UL 746B	°C	
0.75mm			140
1.5mm			140
3.0mm			140
RTI, Strength	UL 746B	°C	
0.75mm			140
1.5mm			140
3.0mm			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 plagues or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques

Summing Selection by 1997 Selection of the Selection of t

The DuPont Oval Logo, DuPont TM , The miracles of science TM and Rynite® are trademarks or registered trademarks of DuPont Company. Copyright© 2008

080225/080226



Product Information

Rynite® 935 BK505

Property	Test Method	Units	Value
Other			
Density	ISO 1183	$kg/m^3 (g/cm^3)$	1580 (1.58)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.7
Parallel, 2.0mm			0.25
Processing			
Melt Temperature Range		°C (°F)	280-300 (535-570)
Melt Temperature Optimum		°C (°F)	285 (545)
Mold Temperature Range		°C (°F)	>95 (>205)
Mold Temperature Optimum		°C (°F)	110 (230)
Injection Speed		S	Fast
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (250)
Processing Moisture Content		%	< 0.02
Hold Pressure Range		MPa (kpsi)	35-140 (5-20)

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.

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

 $The \ DuPont \ Oval \ Logo, \ DuPont^{TM}, \ The \ miracles \ of \ science^{TM} \ and \ Rynite @ \ are \ trademarks \ or \ registered \ trademarks \ of \ DuPont \ Company. \ Copyright @ 2008 \ and \ Copyright & Copyright$

080225/080226

