

# DuPont™ Rynite® PET

thermoplastic polyester resin

## Rynite® 408 BK515

Rynite® 408 BK515 is a 30% glass reinforced modified polyethylene terephthalate with improved impact resistance. Excellent balance of strength, stiffness, toughness and temperature resistance.

Property	Test Method	Units	Value
<b>Identification</b>			
Resin Identification	ISO 1043		PET-IGF30
Part Marking Code	ISO 11469		>PET-IGF30<
<b>Mechanical</b>			
Stress at Break	ISO 527	MPa (kpsi)	
-40°C (-40°F)			179 (30)
23°C (73°F)			127 (18)
90°C (194°F)			71 (10)
150°C (300°F)			55 (8)
Strain at Break	ISO 527	%	
-40°C (-40°F)			2.6
23°C (73°F)			2.9
90°C (194°F)			9.7
150°C (300°F)			11.0 (11)
Tensile Modulus	ISO 527	MPa (kpsi)	
-40°C (-40°F)			10790 (1562)
23°C (73°F)			9300 (1349)
90°C (194°F)			4020 (582)
150°C (300°F)			2890 (419)
Flexural Modulus	ISO 178	MPa (kpsi)	7962 (1153)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	13
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	64

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 DuPont Oval Logo, DuPont™, The miracles of science™ and Rynite® are trademarks or registered trademarks of DuPont Company. Copyright© 2007

071210/071217

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, additives or pigments 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. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. CAUTION: Do not use DuPont materials in medical application involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-2 and DuPont CAUTION Regarding Medical Applications ... H-50102-2

## Rynite® 408 BK515

Property	Test Method	Units	Value
<b>Thermal</b>			
Deflection Temperature 0.45MPa	ISO 75-1/-2	°C (°F)	237 (459)
1.80MPa			218 (424)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	250 (482)
<b>Flammability</b>			
Flammability Classification 0.75mm	IEC 60695-11-10		HB75
1.5mm			HB75
3.0mm			HB40
Flammability Classification 0.75mm	UL94		HB
1.5mm			HB
3.0mm			HB
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1490 (1.49)
<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)
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 plaques or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques

The DuPont Oval Logo, DuPont™, The miracles of science™ and Rynite® are trademarks or registered trademarks of DuPont Company. Copyright© 2007

071210/071217

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, additives or pigments 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. DuPont advises you to seek independent counsel for a freedom to practice opinion on the intended application or end-use of our products. CAUTION: Do not use DuPont materials in medical application involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of DuPont POLICY Regarding Medical Applications H-50103-2 and DuPont CAUTION Regarding Medical Applications ... H-50102-2