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
Identification			
Resin Identification	ISO 1043		PET-IGF30
Part Marking Code	ISO 11469		>PET-IGF30<
Mechanical			
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^2	13
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	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 plagues or ASTM D 955 based on 76 X 127mm (3 X 5in) end-gated plaques

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Property	Test Method	Units	Value
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
0.45MPa			237 (459)
1.80MPa			218 (424)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			250 (482)
Flammability			
Flammability Classification	IEC 60695-11-10		
0.75mm			HB75
1.5mm			HB75
3.0mm			HB40
Flammability Classification	UL94		
0.75mm			HB
1.5mm			HB
3.0mm			HB
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1490 (1.49)
Processing			
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)

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