Product Information

DuPont[™] Rynite[®] PET

thermoplastic polyester resin

PRELIMINARY DATA

Rynite® RE19045 BK507

Rynite® RE19045 BK507 is a 46% glass and mineral reinforced, flame retardant, polyethylene terephthalate black resin.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		PET-(MD+GF)46FR(17)
Part Marking Code	ISO 11469		>PET-(MD+GF)46FR(17)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	110 (16)
Strain at Break	ISO 527	%	0.8
Tensile Modulus	ISO 527	MPa (kpsi)	17000 (2460)
Flexural Modulus	ISO 178	MPa (kpsi)	15000 (2200)
Flexural Strength	ISO 178	MPa (kpsi)	190 (27)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	11

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

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Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
1.80MPa			236 (457)
CLTE, Parallel	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			0.16 (0.09)
23 - 55°C (73 - 130°F)			0.13 (0.07)
55 - 160°C (130 - 320°F)			0.07 (0.04)
CLTE, Normal	ISO 11359-1/-2	E-4/C (E-4/F)	
-40 - 23°C (-40 - 73°F)			0.54 (0.3)
23 - 55°C (73 - 130°F)			0.55 (0.31)
55 - 160°C (130 - 320°F)			0.98 (0.54)
Flammability			
Flammability Classification	UL94		
0.75mm			V-0
Temperature Index			
RTI, Electrical	UL 746B	°C	
0.75mm			75
RTI, Impact	UL 746B	°C	
0.75mm			75
RTI, Strength	UL 746B	°C	
0.75mm			75
Other			
Density	ISO 1183	$kg/m^3 (g/cm^3)$	1760 (1.76)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.5
Parallel, 2.0mm			0.1

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Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	270-290 (518-554)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (248)
Processing Moisture Content		%	< 0.02

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