

DuPont™ Rynite® PET

thermoplastic polyester resin

Rynite® 935 BK505

Rynite® 935 BK505 is a 35% mica/glass reinforced modified polyethylene terephthalate resin with exceptionally low 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)	82 (11.9)
Strain at Break	ISO 527	%	2
Tensile Modulus	ISO 527	MPa (kpsi)	10200 (1480)
Flexural Modulus	ISO 178	MPa (kpsi)	9300 (1350)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	
-30°C (-22°F)			4
23°C (73°F)			5.5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	25
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
1.80MPa			200 (392)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			252 (486)

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.

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Property	Test Method	Units	Value
Flammability			
Flammability Classification 0.75mm	IEC 60695-11-10		HB
Flammability Classification 0.75mm	UL94		HB
Glow Wire Flammability Index 0.75mm	IEC 60695-2-12	°C	775
1.5mm			775
3.0mm			825
Glow Wire Ignition Temperature 0.75mm	IEC 60695-2-13	°C	800
1.5mm			800
3.0mm			850
Temperature Index			
RTI, Electrical 0.75mm	UL 746B	°C	140
RTI, Impact 0.75mm	UL 746B	°C	140
RTI, Strength 0.75mm	UL 746B	°C	140
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

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Property	Test Method	Units	Value
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)
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C (°F)	120 (250)
Processing Moisture Content		%	<0.02

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