



Rynite® PET

thermoplastic polyester resin

Rynite® FR530L NC010

Rynite® FR530L is a 30% glass fibre reinforced, flame retardant, lubricated, modified polyethylene terephthalate for injection moulding. It has a UL94 V-0 rating @ 0.35mm and a UL746B temperature index of 150°C.

Property	Test Method	Units	Value
Mechanical			
Stress at Break	ISO 527-1/-2	MPa	
5mm/min			135
Strain at Break	ISO 527-1/-2	%	2
Tensile Modulus	ISO 527-1/-2	MPa	11500
Tensile Creep Modulus	ISO 899	MPa	
1h			11200
1000h			9700
Flexural Modulus	ISO 178	MPa	
-40°C			11000
23°C			9900
93°C			4600
150°C			2600
Notched Izod Impact	ISO 180/1A	kJ/m2	
-30°C			9.5
23°C			8.0
Notched Charpy Impact	ISO 179/1eA	kJ/m2	
-30°C			8.5
23°C			8.5
Unnotched Charpy Impact	ISO 179/1eU	kJ/m2	
-30°C			33
23°C			40
Thermal			
Deflection Temperature	ISO 75-1/-2	°C	
0.45MPa			243
1.80MPa			222
Melting Temperature	ISO 3146C	°C	252
Vicat Softening Temperature	ISO 306	°C	
50N			218

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.

Mechanical properties measured at 23°C unless otherwise stated.

Rynite® is a DuPont registered trademark.

011125/991215

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Property	Test Method	Units	Value
Electrical			
Surface Resistivity 1mm	IEC 60093	ohm	1E14
Relative Permittivity 100 Hz, 1mm	IEC 60250		4.8
1 MHz, 1mm			4.7
Volume Resistivity 1mm	IEC 60093	ohm cm	1E15
Dissipation Factor 100 Hz, 1mm	IEC 60250	E-4	70
1 MHz, 1mm			100
Electric Strength 1mm	IEC 60243-1	kV/mm	33
Arc Resistance Plate 4mm	UL 746A	s	117
CTI 1mm	IEC 60112	V	250
CTI	UL 746A	PLC level	2
Flammability			
Rating @ 1.5mm Nominal	UL94		V-0
Rating @ Thickness	UL94		V-0
Thickness Tested	UL94	mm	0.35
Limited Oxygen Index	ISO 4589	%	33
Glow Wire	IEC 60695-2-1	°C	
Plate 2mm			960
Plate 3mm			960
Temperature Index			
RTI, Electrical 3.0mm	UL 746B	°C	150
RTI, Mechanical with Impact 3.0mm	UL 746B	°C	150
RTI, Mechanical without Impact 3.0mm	UL 746B	°C	150
Other			
Density	ISO 1183	kg/m3	1675
Hardness, Rockwell Scale M	ISO 2039/2		100
Scale R			120
Humidity Absorption Equilibrium 50%RH	ISO 62, Similar to	%	0.17
Water Absorption Saturation, immersed	ISO 62, Similar to	%	0.77

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Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C	270-290
Melt Temperature Optimum		°C	280
Drying Time, Dehumidified Dryer		h	4
Drying Temperature		°C	120
Processing Moisture Content		%	<0.02
Snake Flow		mm	
90MPa, 5x0.30mm			15
90MPa, 5x0.50mm			56
90MPa, 5x0.75mm			107
90MPa, 5x1.00mm			172

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