Product Information

Rynite® PET

thermoplastic polyester resin

Rynite® FR530 NC010

Rynite® FR530 is a 30% glass fibre reinforced, flame retardant, 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

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.

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Property	Test Method	Units	Value
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
Electrical			
Surface Resistivity	IEC 60093	ohm	
1mm			1E14
Relative Permittivity	IEC 60250		
100 Hz, 1mm			4.8
1 MHz, 1mm			4.7
Volume Resistivity	IEC 60093	ohm cm	
1mm			1E15
Dissipation Factor	IEC 60250	E-4	
100 Hz, 1mm			70
1 MHz, 1mm			100
Electric Strength	IEC 60243-1	kV/mm	
1mm			33
Arc Resistance	UL 746A	s	
Plate 4mm			117
CTI	IEC 60112	V	
1mm			250
Flammability			
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	UL 746B	°C	
0.75mm			155
RTI, Mechanical with Impact	UL 746B	°C	
0.75mm			155
RTI, Mechanical without Impact	UL 746B	°C	
0.75mm			155

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Property	Test Method	Units	Value
Other			
Density	ISO 1183	kg/m3	1675
Hardness, Rockwell	ISO 2039/2		
Scale M			100
Scale R			120
Humidity Absorption	ISO 62, Similar to	%	
Equilibrium 50%RH			0.17
Water Absorption	ISO 62, Similar to	%	
Saturation, immersed			0.77
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

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