



Rynite® PET

thermoplastic polyester resin

Rynite® 408 NC010

Rynite® 408 is a 30% glass fibre reinforced, toughened polyethylene terephthalate for injection moulding. It has improved break resistance.

Property	Test Method	Units	Value
Mechanical			
Stress at Break	ISO 527-1/-2	MPa	126
5mm/min			3.3
Strain at Break	ISO 527-1/-2	%	9300
Tensile Modulus	ISO 527-1/-2	MPa	
Flexural Modulus	ISO 178	MPa	
-40°C			8900
23°C			8300
93°C			3000
150°C			2300
Notched Izod Impact	ISO 180/1A	kJ/m2	12
Notched Charpy Impact	ISO 179/1eA	kJ/m2	
-30°C			12
23°C			14
Unnotched Charpy Impact	ISO 179/1eU	kJ/m2	
-30°C			86
23°C			70
Thermal			
Deflection Temperature	ISO 75-1/-2	°C	
1.80MPa			220
Melting Temperature	ISO 3146C	°C	250

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.

031002/991214

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Property	Test Method	Units	Value
Electrical			
Surface Resistivity 1mm	IEC 60093	ohm	1E14
Relative Permittivity 1 MHz, 1mm	IEC 60250		3.3
Volume Resistivity 1mm	IEC 60093	ohm cm	1E15
Dissipation Factor 1 MHz, 1mm	IEC 60250	E-4	150
CTI 1mm	UL 746A	PLC level	2 250-400
Flammability			
Rating @ 1.5mm Nominal	UL94		HB
Rating @ Thickness	UL94		HB
Thickness Tested	UL94	mm	0.75
Limited Oxygen Index	ISO 4589	%	22
Temperature Index			
RTI, Electrical 0.75mm	UL 746B	°C	140
3.0mm			140
RTI, Mechanical with Impact 0.75mm	UL 746B	°C	140
3.0mm			140
RTI, Mechanical without Impact 0.75mm	UL 746B	°C	140
3.0mm			140
Other			
Density	ISO 1183	kg/m3	1490
Hardness, Rockwell Scale M	ISO 2039/2		70
Scale R			115

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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			7
90MPa, 5x0.50mm			26
90MPa, 5x0.75mm			55
90MPa, 5x1.00mm			88

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