



Zytel® HTN

high temperature nylon resin

Zytel® HTN51G35HSL NC010

Zytel® HTN51G35HSL NC010 is a high temperature, semicrystalline, heat stabilized, 35% glass fibre reinforced nylon resin.

Property	Test Method	Units	Value	
			50%RH	DAM
Mechanical				
Stress at Break 5mm/min	ISO 527-1/2	MPa	210	220
Strain at Break 5mm/min	ISO 527-1/2	%	2,1	2,4
Tensile Modulus 1mm/min	ISO 527-1/2	MPa	12500	12500
Notched Izod Impact -30C	ISO 180/1A	kJ/m2		11
23C			10	11
Notched Charpy Impact -30C	ISO 179/1eA	kJ/m2		11
23C			11	12
Unnotched Charpy Impact -30C	ISO 179/1eU	kJ/m2		56
23C			55	65
Thermal				
Deflection Temperature 0,45MPa	ISO 75-1/2	°C		276
1,80MPa				264
CLTE, Flow	ASTM E 831	E-4/C	0,18	0,18
Melting Temperature 10C/min	ISO 3146C	°C		300

Properties measured at 23°C unless otherwise stated.

Please refer to the Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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Property	Test Method	Units	Value	
			50%RH	DAM
Electrical				
Surface Resistivity	IEC 93	ohm		1E14
Relative Permittivity 1E6 Hz	IEC 250			4
Volume Resistivity	IEC 93	ohm cm	1E15	>1E15
Dissipation Factor 1E6 Hz	IEC 250	E-4		120
Electric Strength	IEC 243-1	kV/mm	36	36
CTI	IEC 112	V	600	600
Flammability				
Flammability at 1.6mm Nominal UL94	UL94			HB
UL94 Rating at Min. Thickness	UL94			HB
UL94 Min. Thickness Tested	UL94	mm		0,9
Limited Oxygen Index	ISO 4589	%	23	23
Other				
Density	ISO 1183	kg/m3		1470
Mould Shrinkage Flow	ISO 2577	%		0,2
Transverse				0,9
Processing				
Melt Temperature Range		°C		320-330
Mould Temperature Range		°C		130-160
Drying Time, Dehumidified Dryer		h		6-8
Drying Temperature		°C		100

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