



Zytel®

nylon resin

Zytel® 70G50HSL NC010

50% Glass Reinforced Nylon 66, Heat Stabilised & Lubricated

Property	Test Method	Units	Value	
			50%RH	DAM
Mechanical				
Stress at Break 5mm/min	ISO 527-1/2	MPa	205	260
Strain at Break 5mm/min	ISO 527-1/2	%	3,5	2,7
Tensile Modulus 1mm/min	ISO 527-1/2	MPa	13000	17000
Notched Izod Impact -30C	ISO 180/1A	kJ/m2	16	16
23C			21	19
Notched Charpy Impact -30C	ISO 179/1eA	kJ/m2	16	17
23C			20	18
Unnotched Charpy Impact -30C	ISO 179/1eU	kJ/m2	100	100
23C			120	115
Thermal				
Deflection Temperature 0,45MPa	ISO 75-1/2	°C		264
1,80MPa				258
CLTE, Flow	ASTM E 831	E-4/C		0,15
CLTE, Transverse	ASTM E 831	E-4/C		0,73
Melting Temperature 10C/min	ISO 3146C	°C		261
Vicat Softening Temperature 50N	ISO 306	°C		255
Flammability				
Flammability at 1.6mm Nominal UL94	UL94			HB
UL94 Rating at Min. Thickness	UL94			HB
UL94 Min. Thickness Tested	UL94	mm		0,8

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
Other				
Density	ISO 1183	kg/m ³		1560
Humidity Absorption	ISO 62, Similar to	%		1,2
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH				4,2
Mould Shrinkage	ISO 2577	%		
Flow				0,2
Processing				
Melt Temperature Range		°C		290-305
Mould Temperature Range		°C		65-120

Properties measured at 23°C unless otherwise stated.

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