



# Zytel®

nylon resin

## Zytel® 490 NC010A

Zytel® 490 NC010A is a toughened PA 66 resin.

Property	Test Method	Units	Value	
			50%RH	DAM
<b>Mechanical</b>				
Yield Stress 50mm/min	ISO 527-1/2	MPa	50	55
Nominal Strain at Break 50mm/min	ISO 527-1/2	%	>50	33
Strain at Break 50mm/min	ISO 527-1/2	%	>100	50
Yield Strain 50mm/min	ISO 527-1/2	%	29	5,5
Tensile Modulus 1mm/min	ISO 527-1/2	MPa	950	2100
Notched Izod Impact -30C	ISO 180/1A	kJ/m2	16	17
			23C	83
Notched Charpy Impact -30C	ISO 179/1eA	kJ/m2	15	20
			23C	104
Unnotched Charpy Impact -30C	ISO 179/1eU	kJ/m2	NB	NB
			23C	NB
<b>Thermal</b>				
Deflection Temperature 0,45MPa	ISO 75-1/2	°C		85
				68
CLTE, Flow	ASTM E 831	E-4/C		1,52
CLTE, Transverse	ASTM E 831	E-4/C		1,52
Melting Temperature 10C/min	ISO 3146C	°C		262
Vicat Softening Temperature 50N	ISO 306	°C		221
<b>Electrical</b>				
CTI	IEC 112	V		600

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.

980116UA20

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Property	Test Method	Units	Value	
			50%RH	DAM
<b>Flammability</b>				
Flammability at 1.6mm Nominal UL94	UL94			HB
UL94 Rating at Min. Thickness	UL94			HB
UL94 Min. Thickness Tested	UL94	mm		0,8
<b>Other</b>				
Density	ISO 1183	kg/m3		1080
Humidity Absorption	ISO 62, Similar to	%		2,3
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH				7,1
Mould Shrinkage	ISO 2577	%		
Flow				1,6

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