



# Zytel®

nylon resin

## Zytel® FR72G25V0 NC010

Flame Retardant Nylon 66/6 Copolymer with 25% Glass Reinforcement and enhanced Flow; meets UL94V-0 test.

Property	Test Method	Units	Value	
			50%RH	DAM
<b>Mechanical</b>				
Stress at Break 5mm/min	ISO 527-1/2	MPa	100	135
Strain at Break 5mm/min	ISO 527-1/2	%	3,5	2,5
Tensile Modulus 1mm/min	ISO 527-1/2	MPa	6500	9200
Ball Indentation Hardness H 961/30	ISO 2039-1	MPa	106	213
Notched Izod Impact -30C 23C	ISO 180/1A	kJ/m2	13	8
				9
Notched Charpy Impact -30C 23C	ISO 179/1eA	kJ/m2		11
				12
Unnotched Charpy Impact -30C 23C	ISO 179/1eU	kJ/m2		70
				55
<b>Thermal</b>				
Deflection Temperature 0,45MPa 1,80MPa	ISO 75-1/2	°C		241
				215
CLTE, Flow	ASTM E 831	E-4/C		0,2
CLTE, Transverse	ASTM E 831	E-4/C		1,06
Melting Temperature 10C/min	ISO 3146C	°C		242
Vicat Softening Temperature 50N	ISO 306	°C		220

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
<b>Electrical</b>				
Relative Permittivity 1E2 Hz	IEC 250			4,2
Volume Resistivity	IEC 93	ohm cm		>1E15
Dissipation Factor 1E2 Hz	IEC 250	E-4		60
Electric Strength	IEC 243-1	kV/mm	25	35
CTI	IEC 112	V		325
<b>Flammability</b>				
Flammability at 1.6mm Nominal UL94	UL94			V-0
UL94 Rating at Min. Thickness	UL94			V-0
UL94 Min. Thickness Tested	UL94	mm		0,5
Glow Wire 1.5mm	IEC 695-2-1	°C		960
<b>Other</b>				
Density	ISO 1183	kg/m3		1490
Humidity Absorption	ISO 62, Similar to	%		1,1
Water Absorption	ISO 62, Similar to	%		4,1
Equilibrium 50%RH				
Mould Shrinkage	ISO 2577	%		0,2
Flow				

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