



# Zytel®

nylon resin

## Zytel® 70G25HSL NC010

25% Glass Reinforced Nylon 66, Heat Stabilised & Lubricated

Property	Test Method	Units	Value	
			50%RH	DAM
<b>Mechanical</b>				
Stress at Break 5mm/min	ISO 527-1/2	MPa	115	188
Strain at Break 5mm/min	ISO 527-1/2	%	5	3,1
Tensile Modulus 1mm/min	ISO 527-1/2	MPa	6300	8600
Ball Indentation Hardness H 961/30	ISO 2039-1	MPa	164	252
Notched Izod Impact -30C	ISO 180/1A	kJ/m2	8	8
23C			11	10
Notched Charpy Impact -30C	ISO 179/1eA	kJ/m2	11	10
23C			11	10
Unnotched Charpy Impact -30C	ISO 179/1eU	kJ/m2	47	53
23C			78	61
<b>Thermal</b>				
Deflection Temperature 0,45MPa	ISO 75-1/2	°C		262
1,80MPa				254
CLTE, Flow	ASTM E 831	E-4/C		0,33
CLTE, Transverse	ASTM E 831	E-4/C		1,12
Melting Temperature 10C/min	ISO 3146C	°C		262
Vicat Softening Temperature 50N	ISO 306	°C		255

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>				
Surface Resistivity	IEC 93	ohm	1E13	>1E15
Relative Permittivity 1E6 Hz	IEC 250		4,5	4,1
Volume Resistivity	IEC 93	ohm cm	1E11	1E15
Dissipation Factor 1E6 Hz	IEC 250	E-4	730	150
CTI	IEC 112	V		400
<b>Flammability</b>				
Flammability at 1.6mm Nominal UL94	UL94			HB
UL94 Rating at Min. Thickness	UL94			HB
UL94 Min. Thickness Tested	UL94	mm		0,9
<b>Other</b>				
Density	ISO 1183	kg/m3		1330
Hardness, Rockwell	ISO 2039/2		R116	R123
Humidity Absorption	ISO 62, Similar to	%		2
Water Absorption Equilibrium 50%RH	ISO 62, Similar to	%		6,4
Mould Shrinkage Flow	ISO 2577	%		0,3
Transverse				1,1
<b>Physical</b>				
Viscosity Number				148

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