



# Zytel®

nylon resin

## Zytel® 408L NC010 Toughened Nylon 66 Resin

Zytel® 408L NC010 is a general purpose, lubricated, modified nylon 66 resin with superior toughness.

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Mechanical</b>				
Tensile Strength	ASTM D 638	MPa (kpsi)	60.7 (8.8)	51.7 (7.5)
Tensile Strength at Yield	ASTM D 638	MPa (kpsi)	60.7 (8.8)	51.7 (7.5)
Elongation at Yield	ASTM D 638	%	5	15
Elongation at Break	ASTM D 638	%	80	270
Poisson's Ratio			0.42	
Flexural Modulus	ASTM D 790	MPa (kpsi)	1965 (285)	1103 (160)
Izod Impact	ASTM D 256	J/m (ft lb/in)	229 (4.3)	240 (4.5)
<b>Thermal</b>				
Heat Deflection Temperature 0.45MPa (66psi), Annealed	ASTM D 648	°C (°F)	227 (440)	
1.8MPa (264psi), Annealed			75 (167)	
CLTE, Parallel	ASTM D 696	E-4/C	0.81	
Melting Point	ASTM D 3418	°C (°F)	263 (505)	
<b>Electrical</b>				
Volume Resistivity	ASTM D 257	ohm cm	1 E15	1 E13
<b>Flammability</b>				
Rating @ Thickness	UL94		HB	
Thickness Tested	UL94	mm	0.81	
<b>Other</b>				
Specific Gravity	ASTM D 792		1.09	
Hardness, Durometer D	ASTM D 2240		83	76
Water Absorption	ASTM D 570	%		
Immersion 24h			1.2	
Saturation			7	
Mold Shrinkage		%		
Flow, 3.2mm (0.126in)			1.5	
<b>Processing</b>				
Melt Temperature Range		°C (°F)	288-293 (550-560)	
Mold Temperature Range		°C (°F)	38-93 (100-200)	
Processing Moisture Content		%	<0.20	

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.  
Mechanical properties measured at 23°C (73°F) unless otherwise stated.

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