



Zytel®

nylon resin

Zytel® 3189 NC010 Toughened Nylon 66 Resin

Zytel® 3189 NC010 is an intermediate toughened nylon 66 resin featuring good stiffness, superior toughness and outstanding processability.

Property	Test Method	Units	Value	
			DAM	50%RH
Mechanical				
Tensile Strength	ASTM D 638	MPa (kpsi)	67 (9.8)	50 (7.2)
Elongation at Break	ASTM D 638	%	40	230
Flexural Modulus	ASTM D 790	MPa (kpsi)	2240 (325)	900 (130)
Izod Impact	ASTM D 256	J/m (ft lb/in)	200 (3.7)	360 (6.8)
Thermal				
Heat Deflection Temperature	ASTM D 648	°C (°F)		
Annealed, 0.45MPa (66psi)			230 (446)	
Annealed, 1.8MPa (264psi)			80 (176)	
Melting Point	ASTM D 3418	°C (°F)	262 (503)	
Flammability				
UL94 Rating at Min. Thickness	UL94		HB	
UL94 Min. Thickness Tested	UL94	mm (in)	0.81 (0.032)	
Other				
Specific Gravity	ASTM D 792		1.10	
Mold Shrinkage		%		
3.2mm (0.125in), Flow			2.1	
3.2mm (0.125in), Transverse			2.4	
Processing				
Melt Temperature Range		°C (°F)	288-293 (550-560)	
Mold Temperature Range		°C (°F)	38-93 (100-200)	
Processing Moisture Content		%	<0.20	

Mechanical properties measured at 23°C (73°F)

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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The data listed here fall within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design.

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CAUTION: Do not use in medical applications involving permanent implantation in the human body.

For other medical applications, see "DuPont Medical Caution Statement", H-50102.

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