Product Information

DuPont[™] Zytel[®]

nylon resin

Zytel® FN727 NC010

Zytel* FN727 NC010 is an impact modified, plasticizer free, very flexible polyamide 6 alloy resin having good low temperature toughness, good heat aging and good chemical resistance. Uses include cable jacketing, hose and tube

applications. Property	Total Moderal	Units	Val	Value	
	Test Method		DAM	50%RH	
Identification					
Resin Identification	ISO 1043		PA6-F		
Part Marking Code	ISO 11469		>PA6-F<		
Mechanical					
Yield Stress	ISO 527	MPa (kpsi)	23 (3.3)		
Tensile Stress	ISO 527	MPa (kpsi)			
@ 50% Strain			22 (3.2)	17.5 (2.5)	
Nominal Strain at Break	ISO 527	%	>50		
Yield Strain	ISO 527	%	44		
Tensile Modulus	ISO 527	MPa (kpsi)	770 (112)	350 (6)	
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	131		
Thermal					
Deflection Temperature	ISO 75f	°C (°F)			
1.80MPa			46 (115)		
Melting Temperature	ISO 11357-1/-3	°C (°F)			
10°C/min			221 (430)		
CLTE, Parallel	ISO 11359-1/-2	E-4/C (E-4/F)			
23 - 55°C (73 - 130°F)			1.2 (0.67)	1.2 (0.67)	
Vicat Softening Temperature	ISO 306	°C (°F)			
50N			180 (356)		

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm. Test temperatures are 23°C unless otherwise stated.

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Property	Test Method	Units	Value	
			DAM	50%RH
Other				
Density	ISO 1183	$kg/m^3 (g/cm^3)$	1020 (1.02)	
Mold Shrinkage		%		
3.2mm (0.126in)			1.3	
Processing				
Melt Temperature Range		°C (°F)	250-280 (480-535)	
Melt Temperature Optimum		°C (°F)	260 (500)	
Mold Temperature Range		°C (°F)	40-80 (105-175)	
Mold Temperature Optimum		°C (°F)	60 (140)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	< 0.05	

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