DuPont™ Zytel®

nylon resin

Zytel® 70K20HSL NC010

Zytel® 70K20HSL NC010 is a heat stabilized PA66 resin modified with Kevlar® for excellent wear resistance.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA66-RF20	
Part Marking Code	ISO 11469		>PA66-RF20<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	110 (16.0)	85 (12.3)
Strain at Break	ISO 527	%	5.2	7.2
Tensile Modulus	ISO 527	MPa (kpsi)	5300 (769)	3500 (510)
Flexural Modulus	ISO 178	MPa (kpsi)	4900 (710)	3300 (478)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	6	9
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	50	65
Thermal				
Deflection Temperature	ISO 75f	°C (°F)		
0.45MPa			255 (491)	
1.80MPa			222 (432)	
Melting Temperature	ISO 11357-1/-3	°C (°F)		
10°C/min			263 (505)	
Vicat Softening Temperature	ISO 306	°C (°F)		
50N			250 (482)	

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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			DAM	50%RH
Other				
Density	ISO 1183	kg/m^3 (g/cm^3)	1190 (1.19)	
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH			2.7	
Saturation, immersed			6.8	
Molding Shrinkage	ISO 294-4	%		
Normal, 2.0mm			1.4	
Parallel, 2.0mm			0.9	
Processing				
Melt Temperature Range		°C (°F)	285-305 (545-580)	
Melt Temperature Optimum		°C (°F)	295 (565)	
Mold Temperature Range		°C (°F)	70-120 (160-250)	
Mold Temperature Optimum		°C (°F)	100 (210)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.20	

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