Zytel®

nylon resin

Zytel® ST801HS BK010

Super Tough Nylon 66 Resin

Zytel® ST801HS NC010 is a heat stabilized Super Tough black nylon 66 resin. It offers outstanding impact resistance and high productivity.

Property	Test Method	Units	Value	
			DAM	50%RH
Mechanical				
Yield Stress	ISO 527-1/-2	MPa (kpsi)	51 (7.4)	NoYLD
Yield Strain	ISO 527-1/-2	%	6	
Nominal Strain at Break	ISO 527-1/-2	%	38	>50
Tensile Modulus	ISO 527-1/-2	MPa (kpsi)	2003 (290.5)	811 (117.6)
Notched Charpy Impact	ISO 179/1eA	kJ/m2		
-30C (-22F)			13	
23C (73F)			72	21
Unnotched Charpy Impact	ISO 179/1eU	kJ/m2		
-30C (-22F)			NB	
23C (73F)			NB	
Thermal				
Deflection Temperature	ISO 75-1/-2	°C (°F)		
0.45MPa			177 (351)	
1.80MPa			61 (142)	
CLTE, Parallel	ASTM E 831	E-4/C (E-4/F)		
23 - 55C (73 - 130F)			1.1 (0.61)	
CLTE, Normal	ASTM E 831	E-4/C (E-4/F)		
23 - 55C (73 - 130F)			1.2 (0.67)	
Melting Temperature	ISO 3146C	°C (°F)	262 (504)	
Flammability				
Rating @ 1.6mm Nominal	UL94		HB	
Rating @ Thickness	UL94		HB	
Thickness Tested	UL94	mm	0.75	
Limited Oxygen Index	ISO 4589	%	22	
Other				
Density	ISO 1183	kg/m3 (g/cm3)	1090 (1.09)	

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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Product Information

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Property	Test Method	Units	Value	
			DAM	50%RH
Processing				
Melt Temperature Range		°C (°F)	288-293 (550-560)	
Melt Temperature Optimum		°C (°F)	290 (555)	
Mold Temperature Range		°C (°F)	38-93 (100-200)	
Mold Temperature Optimum		°C (°F)	70 (158)	
Drying Time		h	2-4	
Drying Temperature		°C (°F)	80 ()	
Processing Moisture Content		%	<0.20	

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