Zytel®

nylon resin

Zytel® 80G33HS1L NC010

33% Glass Reinforced Heat Stabilized & Lubricated Nylon 66 resin with outstanding impact resistance developed using DuPont Super Tough technology.

Property	Test Method	Units	Value	
			50%RH	DAM
Mechanical				
Stress at Break	ISO 527-1/2	MPa		
5mm/min			94	140
Strain at Break	ISO 527-1/2	%		
5mm/min			4,5	3,5
Tensile Modulus	ISO 527-1/2	MPa		
1mm/min			5800	8500
Notched Izod Impact	ISO 180/1A	kJ/m2		
-30C			15	15
23C			24	20
Notched Charpy Impact	ISO 179/1eA	kJ/m2		
-30C			16	16
23C			26	20
Unnotched Charpy Impact	ISO 179/1eU	kJ/m2		
-30C			99	100
23C			95	90
Thermal				
Deflection Temperature	ISO 75-1/2	°C		
0,45MPa				259
1,80MPa				245
CLTE, Flow	ASTM E 831	E-4/C		0,25
CLTE, Transverse	ASTM E 831	E-4/C		1,5
Melting Temperature	ISO 3146C	°C		
10C/min				262
Vicat Softening Temperature	ISO 306	°C		
50N				244

Properties measured at 23°C unless otherwise stated.
Please refer to the Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

980116UA20

Start
with DuPont
Engineering Polymers

Zytel® 80G33HS1L NC010

Property	Test Method	Units	Value	
			50%RH	DAM
Electrical				
Surface Resistivity	IEC 93	ohm		1E12
Relative Permittivity	IEC 250			
1E6 Hz			4,3	3,6
Volume Resistivity	IEC 93	ohm cm	1E11	>1E15
Dissipation Factor	IEC 250	E-4		
1E6 Hz			600	130
Flammability				
Flammability at 1.6mm Nominal UL94	UL94			HB
UL94 Rating at Min. Thickness	UL94			HB
UL94 Min. Thickness Tested	UL94	mm		0,8
Other				
Density	ISO 1183	kg/m3		1330
Humidity Absorption	ISO 62, Similar to	%		1,5
Water Absorption	ISO 62, Similar to	%		
Equilibrium 50%RH				4,5
Mould Shrinkage	ISO 2577	%		
Flow				0,2
Processing				
Melt Temperature Range		°C		290-305
Mould Temperature Range		°C		65-120
Drying Time, Dehumidified Dryer		h		2-4
Drying Temperature		°C		80

Properties measured at 23°C unless otherwise stated.
Please refer to the Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

980116UA20

Start
with DuPont
Engineering Polymers