DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

Zytel® FR73G20GWF GY372

Zytel® FR73G20GWF GY372 is a 20% glass fiber reinforced, flame retardant polyamide 6 resin for injection molding. It is halogen and red phosphorous free.

Property	Test Method	Units	Value	
			DAM	50%RH
Identification				
Resin Identification	ISO 1043		PA6-GF20FR(30)	
Part Marking Code	ISO 11469		>PA6-GF20FR(30)<	
Mechanical				
Stress at Break	ISO 527	MPa (kpsi)	90 (13.1)	48 (7.0)
Strain at Break	ISO 527	%	3.5	28
Tensile Modulus	ISO 527	MPa (kpsi)	6000 (870)	3000 (435)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2		
-30°C (-22°F)			3	
23°C (73°F)			4	6.5
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	30	110
Thermal				
Deflection Temperature	ISO 75f	°C (°F)		
0.45MPa			200 (392)	
1.80MPa			150 (302)	
Melting Temperature	ISO 11357-1/-3	°C (°F)		
10°C/min			221 (430)	

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.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Property	Test Method	Units	Value	
			DAM	50%RH
Electrical				
Relative Permittivity	IEC 60250			
1E6 Hz			3.8	
Volume Resistivity	IEC 60093	ohm m	1E13	
Electric Strength	IEC 60243-1	kV/mm (V/mil)		
1.0mm			35 (890)	
CTI	IEC 60112	V	550	
Flammability				
Flammability Classification	IEC 60695-11-10			
0.75mm			V-2	
1.5mm			V-2	
3.0mm			V-2	
Flammability Classification	UL94			
0.75mm			V-2	
1.5mm			V-2	
3.0mm			V-2	
Glow Wire Flammability Index	IEC 60695-2-12	°C		
0.75mm			960	
1.5mm			960	
Glow Wire Ignition Temperature	IEC 60695-2-13	°C		
0.75mm			750	
1.5mm			750	
Temperature Index				
RTI, Electrical	UL 746B	°C		
0.75mm			65	
RTI, Impact	UL 746B	°C		
0.75mm			65	
RTI, Strength	UL 746B	°C		
0.75mm			65	
Other				
Density	ISO 1183	kg/m^3 (g/cm^3)	1330 (1.33)	

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			DAM	50%RH
Processing				
Melt Temperature Range		°C (°F)	260-280 (500-535)	
Melt Temperature Optimum		°C (°F)	270 (520)	
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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