DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

Zytel® 75LG50L NC010

Zytel® 75LG50L is a 50% long glass reinforced, lubricated polyamide 66 resin for structural applications.

Property	Test Method	Units	Value DAM
Identification			
Resin Identification	ISO 1043		PA66-GF50
Part Marking Code	ISO 11469		>PA66-GF50<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	260 (37.7)
Strain at Break	ISO 527	%	1.9
Tensile Modulus	ISO 527	MPa (kpsi)	16500 (2390)
Flexural Modulus	ISO 178	MPa (kpsi)	14000 (2030)
Flexural Strength	ISO 178	MPa (kpsi)	400 (58.0)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	50
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m^2	95
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
1.80MPa			260 (500)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			260 (500)
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1580 (1.58)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.6
Parallel, 2.0mm			0.2

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.
For optimal properties with long glass resins, it is necessary to process the resin with conditions that minimize fiber breakage.
Recommended molding equipment include a mild working screw, with a low compression ratio and deep metering section.

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
Processing			
Melt Temperature Range		°C (°F)	290-310 (550-590)
Melt Temperature Optimum		°C (°F)	305 (580)
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
Processing Moisture Content		%	<0.20

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