

DuPont™ Zytel® FR70G25GWNH WT409 (Preliminary Data)

NYLON RESIN

Product Information

Zytel® FR70G25GWNH WT409 is a 25% Glass Reinforced, Flame Retardant, Polyamide 66

General information	Value	Unit	Test Standard
Resin Identification	PA66-GF25FR(30+40)	-	ISO 1043
Part Marking Code	PA66-GF25FR(30+40)	-	ISO 11469
Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	0.2 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / -	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	9500 / 6000	MPa	ISO 527-1/-2
Stress at break	125 / 73	MPa	ISO 527-1/-2
Strain at break	2 / 3.7	%	ISO 527-1/-2
Charpy impact strength, 73°F	27 / 34	kJ/m ²	ISO 179/1eU
Charpy notched impact strength 73°F	3.4 / 4.7	kJ/m ²	ISO 179/1eA
-40°F	4.5 / 5.2	kJ/m ²	
Izod notched impact strength, 73°F	3.5 / -	kJ/m ²	ISO 180/1A
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	261 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 260 psi	237 / *	°C	ISO 75-1/-2
Flammability	dry / cond	Unit	Test Standard
Glow Wire Flammability Index			IEC 60695-2-12
60mil	960 / -	°C	
80mil	960 / -	°C	
120mil	960 / -	°C	
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
Electrical properties	dry / cond	Unit	Test Standard
Comparative tracking index	450 / -	-	IEC 60112
Other properties	dry / cond	Unit	Test Standard
Density	1430 / -	kg/m ³	ISO 1183
Injection	dry / cond	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥80	°C	-
Drying Time, Dehumidified Dryer	2 - 4	h	-
Processing Moisture Content	≤0.2	%	-
Melt Temperature Optimum	290	°C	-
Min. melt temperature	280	°C	-
Max. melt temperature	300	°C	-
Max. screw tangential speed	0.2 / *	m/s	-
Mold Temperature Optimum	100	°C	-
Min. mold temperature	50	°C	-
Max. mold temperature	90	°C	-
Hold pressure range	50 - 100	MPa	-
Hold pressure time	3	s/mm	-
Ejection temperature	210	°C	-

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

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Characteristics

Processing	• Injection Molding		
Delivery form	• Pellets		
Regional Availability	• North America	• Asia Pacific	• Near East/Africa
	• Europe	• South and Central America	• Global

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

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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North America

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