

DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

Zytel® 75CG45HSL BK409

Zytel® 75CG45HSL BK409 is a 45% glass and carbon fiber reinforced, toughened, heat stabilized polyamide resin.

Property	Test Method	Units	Value
			DAM
Identification			
Resin Identification	ISO 1043		PA-I(GF+CF)
Part Marking Code	ISO 11469		>PA-I(GF+CF)<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	175 (25)
Strain at Break	ISO 527	%	2.9
Tensile Modulus	ISO 527	MPa (kpsi)	17500 (2540)
Flexural Modulus	ISO 178	MPa (kpsi)	15500 (2250)
Flexural Strength	ISO 178	MPa (kpsi)	300 (44)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	-40°C (-40°F)
			23°C (73°F)
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	80
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	0.45MPa
			1.80MPa
Melting Temperature	ISO 11357-1/-3	°C (°F)	10°C/min, First Heat

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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Product Information

Zytel® 75CG45HSL BK409

Property	Test Method	Units	Value
			DAM
Electrical			
Volume Resistivity	ASTM D 4496	ohm m	1E2
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1420 (1.42)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.6
Parallel, 2.0mm			0.2
Processing			
Melt Temperature Range		°C (°F)	280-305 (535-580)
Melt Temperature Optimum		°C (°F)	290 (555)
Mold Temperature Range		°C (°F)	50-100 (122-212)
Mold Temperature Optimum		°C (°F)	80 (176)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (180)
Processing Moisture Content		%	<0.20

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