Zytel® FE150065 NC010 (PRELIMINARY)

LONG CHAIN POLYAMIDE RESIN

Zytel® FE150065 NC010 is a 23% glass reinforced, low density polyamide 610 resin developed for light-weight structural application.

Product information

Resin Identification	PA610-(GB+GF)23		ISO 1043
Part Marking Code	>PA610-(GB+GF)23<		ISO 11469
ISO designation	ISO 16396-PA610,(GB+GF)23,MNG,S14-040		
Biobased carbon content	≥60[C]	%	ISO 16620-2

[C]: Calculated

Rheological properties

	dry/cond.		
Molding shrinkage, parallel	0.8 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	595000 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	13100 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	4.5 / -	%	ISO 527-1/-2
Flexural modulus	522000 / -	psi	ISO 178
Flexural strength	18900 / -	psi	ISO 178
Charpy impact strength, 23°C	18.1 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	2.38 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	435 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	338 / *	°F	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB / *	class	IEC 60695-11-10

Electrical properties

	dry/cond.		
Dielectric Constant, 23°C, 10 GHz	2.6[1] / -		ASTM D 2520 B / IPC-TM-650
Dissipation Factor, 23°C, 10 GHz	100[1] / -	E-4	ASTM D 2520 B / IPC-TM-650

[1]: measured at 2.45GHz

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.5 / *	%	Sim. to ISO 62
Density	0.0347 / -	lb/in³	ISO 1183

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Injection

Drying Temperature	176	°F
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	536	°F
Min. melt temperature	518	°F
Max. melt temperature	554	°F
Mold Temperature Optimum	212	°F
Min. mold temperature	158	°F
Max. mold temperature	248	°F
Hold Pressure Time (h is the max. wall thickness of the part in mm)	h^2+2	s

Characteristics

Processing	Injection Molding

Revised: 2026-06-18 Source: Celanese Materials Database

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